

Teaching Professionals Knowledge of New Techno Pedagogical Approach Stop Motion Studio for Slow Learners

K. Jagadeesh* and A. Subramanian**

Department of Education, University of Madras, Tamil Nadu, India

*Email: jagavky@gmail.com

Abstract-

Background: A “Slow Learners” is not a diagnosing category, it is a term people use to describe a student who has the ability to learn necessary academic skills, but at rate and depth below average same age peers. In order to grasp new concepts, a slow learners needs more time, more repetition, and often more resources from teachers to be successful. The research study focused on Teaching Professionals’ Knowledge of New Techno Pedagogical Approach Stop Motion Studio for Slow Learners.

Method: This study was conducted in various districts of Tamil Nadu. Survey method through survey monkey was employed to collect the data through questionnaire (open-ended) by adopting Judgment or Purposive sampling Technique.

Sample: The sample size of this study comprises 118 teaching professionals working and studying various schools and colleges in Tamil Nadu. The responses from the questionnaire have been complied in percentages.

Objective: The objective of the study is to analyze the teaching professionals Knowledge of new techno pedagogical approach Stop Motion Studio for slow learners.

Result: The findings provide a variety of information that was based on objective of the study.

Key Terms: Stop Motion Studio, Slow learners, Teaching Professionals, Techno Pedagogy.

Introduction

Instructional technology is the art and study of building a learning system and also building a feedback mechanism into the learning system in such a way that the system is sensitive to the dynamics of each individual’s learning experience as well as the whole of everyone’s experience. Teaching methods have given way to a great deal of changes over the past 100 years, which makes it necessary to consider new models of teaching and the way information is translated to students. In general, many have supported the notion that in order to properly educate students for the complex world they will soon be a part of, integration of technology can be supportive

component. Students will be able to develop essential 21st century skills that they will need to be successful in their future.

Stop Motion Studio

Stop Motion is an animated-film making technique in which objects are physically manipulated in small increments between individually photographed frames so that they will appear to exhibit independent motion when the series of frames is played back as a fast sequence.

Need and Significance

Education is both a basic human right and a core element of sustainable development. It is the theme of the United Nations' fourth Sustainable Development Goal, which seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all". Access to the internet is fundamental to achieving this vision for the future. It can improve the quality of education in many ways. Teachers use online materials as well as software's to prepare lessons, and students to extend their range of learning. Interactive teaching methods, supported by the internet, enables teachers to give more attention to individual students' needs and support shared learning. Access to the internet and teaching learning application like Stop Motion Studio helps educational administrators to reduce the costs and improve the student's achievements especially slow learners and the quality of institutions.

Objectives of the study

To analyze the teaching professionals Knowledge of new techno pedagogical approach Stop Motion Studio for slow learners.

Research Questions

- How many teaching professionals familiar with the term 'Stop motion Studio'?
- How many teaching professionals got hands on experience in this App?
- How many teaching professionals aware that could relate to the subject their teaching?
- How many teaching professionals know that audio and video is available in this App?
- How many teaching professionals really interested in teaching with the help of virtual images like this app?
- How many teaching professionals know this app is affordable?
- How many teaching professionals supported this app creates more attention for slow learners?
- How many teaching professionals agree with an innovative teaching technology helpful for slow learners than traditional method?
- How many teaching professionals know that it could convey the content of lessons in teacher's point of view?
- How many teaching professionals know teachers can teach the subject effectively using this app?

Method and Procedure

Designing a research methodology is one of the most important elements when carrying out a research. Survey method was adopted for this study.

Tool Used

Awareness of teaching professionals towards Stop motion Studio app questionnaire on a yes or no type, constructed by the researchers was used in this study.

Sample

Judgment or purposive sampling technique was used through Survey monkey. Sample for this study consist of 118 teaching professionals from various districts of Tamil Nadu.

Analysis and Discussion

Table – 1: Teaching Professionals’ Knowledge of New techno pedagogical approach (Stop Motion studio) for slow learners

Question Asked	Yes		No	
	N	%	N	%
Are you familiar with the term ‘Stop motion Studio’?	41	35	77	65
Have you got hands on experience in this App?	37	31	81	69
Are you aware that could relate to the subject their teaching?	93	79	25	21
Do you know that audio and video is available in this App?	52	44	66	56
Are you really interested in teaching with the help of virtual images like this app?	106	90	12	10
Do you know this app is affordable?	43	36	75	64
Do you know that this app creates more attention for slow learners?	81	69	37	31
An innovative teaching technology helpful for slow learners than traditional method?	102	86	16	14
I know that it could convey the content of lessons in teacher’s point of view?	95	81	23	19
I know teachers can teach the subject effectively using this app?	89	75	29	25

RQ: 1- Knowledge about Stop motion studio application is 35% among teaching professional. It is inferred that most of the teaching professional there is no knowledge about Stop motion Studio Application. **RQ: 2** - 31% of teaching professionals only got hands on experience for Stop

motion Studio Application. It is inferred that this app doesn't spread into teaching communities. **RQ: 3** - 79% of teaching professionals teach with the help of technology. It is inferred that most the teachers and teacher educators are interested in teach with the help of technology. **RQ: 4** - 44% of teaching professionals only know that audio and video available in this application. **RQ: 5** - 90% of teaching Professionals are interested in teaching with the help of virtual images like this application. **RQ: 6** - 34% of teaching Professionals are know this application is affordable. **RQ: 7** - 69% of teaching professionals are agreeing that this app creates more attention for slow learners. It is inferred that this application more suitable for slow learners. **RQ: 8** - 86% of teaching professionals are agreeing with innovative teaching technology helpful for slow learners than traditional method. **RQ: 9** - 81% of teaching professionals are supported in this application to convey the content of lessons in teacher's point of view. It is inferred that this application very useful for teachers using in their individual needs. **RQ: 10** - 75% of teaching professionals are agreeing with teachers can teach the subject effectively using this application.

Findings of the Study

- The teaching Professionals' are familiar with the term 'Stop motion Studio' is 35%. The knowledge of New Techno pedagogical approach Stop Motion Studio among Teaching Professionals is low.
- 90% of Teaching Professionals are really interested in teaching with the help of virtual images like this application stop motion studio.
- 69% of Teaching Professional agreeing with this application stop motion Studio creates more attention for slow learners.
- 75% of teaching Professional agreeing with the teachers can teach the subject effectively using this application Stop Motion studio.

Suggestions and Recommendations

- Create the awareness of Stop motion studio among teaching professionals.
- Slow learners can benefit from stop motion studio application.
- Hands on training program organized will be provided for teaching professionals.
- All the teaching professions are utilizing this application in their teaching.
- All the teacher educators are promoting the usage of stop motion studio for their classroom content delivery and to encourage prospective teachers to utilize effectively for the benefits of slow learners.
- A study can be conducted as experimental research for slow learners.

Conclusion

Most of the researchers have studied the techno pedagogy competency and skills, usage of ICT of teachers and prospective teachers. Here the investigator analysed the Teaching Professionals' Knowledge of New Techno Pedagogical Approach Stop Motion Studio for Slow learners. From the above study the investigator concluded that the level of Teaching Professionals' Knowledge

of New Techno Pedagogical Approach Stop Motion Studio is low in nature. Educationalists are enthusiastically exploring opportunities and discovering new ways in which they can use the internet and software to improve students' outcomes. As the Broadband Commission for Sustainable Development puts it, the challenge is "to help teachers and students use technology....in relevant and authentic ways that actually improve education for slow learners and foster the knowledge and skills necessary for lifelong learning".

References

- John W. Best, James V. Kahn, (2014). *Research in Education: 10th Edn*, PHI publications, New Delhi. ISBN-978-81-203-3563-9.
- Mangal.S.K., (2014). *Essentials of Educational Psychology*, PHI publications, New Delhi. ISBN-978-81-203-3055-9.
- Ming., et al.,(2010) - "Grappling with Technology: A Case of Supporting Malaysian "Smart School" Teachers' Professional Development". *Australasian Journal of Education Technology* V 26 n3 P 400-416. 2010.
- Preeti Bala., Imlikokla TAO., (2018). An Examination of Techno – Pedagogical Competence and Anxiety towards the use of Instructional Aids in Teaching among Senior Secondary School Teachers, *International Educational Journal CHETANA*, Year-3, Vol 3, pp 95-114.
- Ramganes. E., (2017). *Instructional Technologies for Transformative Teaching and Learning*. Instructional Technologies for Transformative Teaching and Learning by IQAC, Stella Matutina College of Education, Chennai. Pp: 1-4. ISBN 978-81-928751-8-7.
- Srinivasan K.,(2018). Collaborating Stop Motion Technique in Science Teaching and Learning Process. National Conference on Science Education, RIE, Bhubaneswar.
- Xiaobing Su., Xiaorui Huang., Chun Zhou., Maiga Chang.,(2017). A Technological Pedagogical Content Knowledge (TPACK) Scale for Geography Teachers in Senior High School, *Education and Science*, Vol 42, No 190, pp 325-34.