

Research Paper



Development And Validation of Self-learning Material (Sim) For Second Year Students of Diploma In Education (D.Ed.) Course of Karnataka State



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Introduction:

Instructional material is one of the valuable devices in the process of learning. There should be suitable supplementary materials for students so that they learn accordingly with the help of such learning materials. Self Instructional Materials (SIMs) are designed for both on-site and at distance learner to learn by own. SIMs includes all the text prepared to stimulate independent study/learning. The SIM is useful to students who have less contact with either the institution or the tutor have less access to library facilities

Objectives Of The Study:

- i. To develop Self-Instructional Material (SIM) on Content based Methodology in Science that is Curriculum and Co-curricular activities in Science.
- ii. To validate the Self-Instructional Material (SIM).

Limitations Of The Study:

1. The development and validation of the SIM is limited to the D.Ed. course syllabus of Karnataka State.
2. The development and validation of the SIM was done as related to the following subject and unit only. Subject: Content Based Methodology in Science Sub-Units of Unit 1; Learning science outside the classroom lessons

Design Of The Study:

The researcher has made use of experimental research (Single Group pre-test and post-test) design for validation of the SIM.

Tools Used:

1. Questionnaire for Validation of SIM and
2. Achievement Tests on Content Based Methodology in Science

Statistical Techniques Used:

For analysis of the data the researcher has used per-

Sample Of The Study:

Sl. No.	Sample	Sampling Method	Number	Reason for inclusion
1	Teacher Educators Working in DIET's/ TTI's	Convenient Sampling	20	Expertise in judging the Quality and Content of SIM
2	Teacher Educators working in Secondary Colleges of Education	Convenient Sampling	20	Judging the Utility and Relevance of the SIM
3	Academicians working in P.G. Depts. of education	Convenient Sampling	10	Judging the Utility and Relevance of the SIM
4	Students of D.Ed course	Sampling Method	50	Establishing Validation / Effectiveness of SIM
	Total		100	

centages, mean, standard deviation and 't' tests.

Analysis And Validation Of Sim With Interpretation:

See Table 1

The SIM developed is Excellent in its framework, language and coverage of the content are very good and presentation of the SIM is good. The meaning of the keywords dimension is missing.

See Table 2

The SIM developed is excellent in terms of self sufficiently and ordinary in terms of the graphic presentation. The Self-check potential, comparative is worth and the style of the SIM is very good.

See Table 3

The suggested activities component of the SIM is excellent, clarity and suggested readings are very good and the self-instructional ability is good.

Student Achievement Based Validation Of The Sim

The calculated t-value is more than the tabulated t-value at 0.01 and 0.05 level of significance. Hence it is very clearly that the developed SIM is significantly in enhancing the achievement of D.Ed students in Content Based Methodology in Science.

Findings :

The SIM can be developed by using authentic and empirical sources of information on any subject. The development of the SIM requires lot of patience, in-depth and exhaustive literature survey, simplest possible way of presentation and writing from the perspective of the learners. The Developed SIM is useful in enhancing significantly the achievement of the D.Ed Students in Curriculum Transaction.

Discussion And Conclusion:

The research studies in the area of development of innovative learning material and media are

Table 1: The Expert Judgement of the language, framework coverage of content and presentation of the Self Instructional Material.

Sl.No	Questions/Items	Expert Judgement			
		Yes	%	No	%
1	Is the language used in the SIM reader (Student) friendly?	4	80	1	20
2	Is the framework of SIM appropriate?	5	100	0	0
3	Is the coverage of the content adequate?	4	80	1	0
4	Is the content collected, collated, complied created and presented to suit the objectives?	3	60	2	40
5	Is the meaning to keywords given sufficient to understand the SIM easily?	0	0	5	100

Table 2: The Expert Judgement on the Self-sufficiency, Self check, graphic presentation comparative worth and style of the Self Instructional Material

Sl.No	Questions / Items	Expert Judgement			
		Yes	%	No	%
6	Is the material presented self-sufficient?	5	100	0	0
7	Are the check-your-progress questions appropriate and challenging to understand the content?	4	80	1	20
8	Are the figures, charts, maps, pictures, and photographs, tables used sufficient?	1	20	4	80
9	Is the SIM better than the Textbooks and Reference books?	4	80	1	20
10	Is the presentation of the material in self-instructional style?	4	80	1	20

Table 3: The Expert Judgement in terms of the Self instructional ability, clarity , suggested activity and sufficiency of references of the Self Instructional Material

Sl.No	Questions/Items	Expert Judgement			
		Yes	%	No	%
1.	Is the content presented so as the teacher in the material speaking to you?	3	60	2	40
2.	Does the study of the SIM make the concept clear?	4	80	1	20
3.	Are the suggested activities appropriate?	5	100	0	0
4.	Do the suggested activities kindle your interest and ignite your mind?	5	10	0	0
5.	Are the references and suggested readings provided sufficient?	4	80	1	20

Table 4: Results of t-test of the scores (Pre-Post) D.Ed students

Sl.No	Tests	N	Mean	SD	t calculated	t		Significance
						0.01	0.05	
1	Pre-test	50	11.28	1.6392	31.197	2.68	2.01	S
2	Post-test	50	20.6	2.9392				

very few. Hence, there is a lot of scope for innovation, invention, research and discovery in this field. It is a fertile area for the researchers to help the learners by equipping and empowering them with meaningful simple and friendly learning tools.

REFERENCE

* Claxton, C., & Murrell, P. (1987). Learning styles: Implications for improving educational practices, Texas: ASHE-ERIC. * Lockwood, F. G.(1992) Activities in self -instructional texts, London, Kogan Page.