

Effective Teaching Methods For Under graduate and Post-graduate Level of Education

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INTRODUCTION

Aim of education must be very specific enable to bring about desirable change in behaviour. Effective teaching results from plan & not from trial and error. Every teacher need to know that makes both teaching and learning effective. Teaching requires both content & methods. In teaching, teacher must be proficient in technical knowledge or what to teach, educational process, how to teach, & the use of teaching methods. Lecture method is extensively used by teacher in teaching. But the limitation of the lecture method is some time students are passive. Most of teachers lacking the skill to deliver the effective lecture. The combination of teaching methods always helps teacher to make effective teaching.

Teaching method are the effective tools to impart education. The effectiveness of teaching methods varies from subject to subject and teacher to teacher. Sufficient knowledge about the relative effectiveness of different teaching method is quite essential for a teacher to make his teaching more effective and impressive in terms of increasing knowledge at undergraduate and post-graduate level of education.

METHODOLOGY

The investigation was under taken at the N. M. College of Agriculture, Navsari. Seventy students of eighth semester at undergraduate level and thirty six post-graduate students were selected. Level of knowledge was measured before and after teaching using different methods by the same teacher to teach the same subject in different topics. The data were collected by using a interview schedule. Some of the valid scales designed by earlier research workers were used. The statistical method employed for analysing the data were paired 't' test.

FINDINGS

The effectiveness of teaching method was compared with the effectiveness of other teaching methods by measuring the level of the selected students 'knowledge. The 't' values are presented in table-1 and table-2.

The forgoing results clearly bring out the conclusion that before starting the lecture method if a teacher take the revision of main points of the last lecture and then if he adopt lecture method associated with the use of overhead projector to deliver the subject by question

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Table 1 : Distribution of undergraduate students according to their level of knowledge

Sr. Method No.	(N= 70)					
	Level of knowledge before teaching class			Level of knowledge after teaching class		
	Low	Medium	High	Low	Medium	High
1. Lect. with overhead projector + Literature	84	16	00	32	64	04
2. Lect + Question session + Literature	88	12	00	12	80	08
3. Lecture alone	80	20	00	00	60	32
4. Revision + lect. with OHP + Questions session + Literature	88	12	00	04	48	48

Table 2 : Relative effectiveness of teaching methods undergraduate level.

Sr. No.	Method	(N = 70)	
		Paired 't' value	Rank
1.	Lect. with over head projector + literature	9.33	III
2.	Lect. + Question + Literature		
3.	Lecture alone	08.77	IV
4.	Revision + Lect. with-OHP + Ques-Ans. session + Literature.	15.59	I

- answer session and at the end supplying related literature was created significant influence in increasing the knowledge level among undergraduate students.

The above ranking indicates regarding the effectiveness of the teaching methods under study. The combination of specific assignment, group discussion with over head projector supported by giving research high lights & giving reference books found to be effective method.

This combination created significant influence in increasing knowledge among post-graduate students in comparison with the other methods.

Thus, for imparting education at undergraduate level in Agriculture college if a teacher take the revision of main points of the last lecture and then if he adopt. lecture with overhead projector supported by question answer session followed by supporting literature related

Table 3 : Distribution of post-graduate student respondents according to their level of knowledge

Sr No.	Methods	Level of knowledge					
		before teaching			after teaching		
		Low	Medium	High	Low	Medium	High
1.	Lecture	80	20	0	44	44	12
2.	Group discussion + Literature	84	16	0	16	56	28
3.	Lect. + Literature	80	20	0	12	60	28
4.	Assin+G.D. with OHP + Research highlight & Ref. book.	76	24	0	08	40	52

Table 4 : Relative effectiveness of teaching methods at post-graduate level.

Sr. No.	Method	Paired 't' value	Rank
1.	Lecture	5.297	IV
2.	G. D. + Lit	10.128	II
3.	Lect. + Lit.	09.731	III
4.	Assin + G.D. with-OHP + Res. Highlight & Ref. Book.	13.592	I

to the subject has been found most effective, while for imparting education at post-graduate level the combination of specific assignment, of we held group discussion supported with overhead

projector and giving research highlight and giving reference books related to the subject created significant influence in increasing knowledge.