COGNITIVE STYLE IN RELATION TO PEDAGOGIC CONTENT KNOWLEDGE AMONG SECONDARY SCHOOL TEACHERS

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ABSTRACT

Teaching is a noble profession. It creates all other professions. But now a days teachers face a lot of problem regarding adjustment and effectiveness. The aim of this study is to find out the effectiveness and adjustment among secondary school teachers with regard to gender, type of school, location of the school, discipline, marital status and experience in teaching profession. The study was carried out on a sample of 300 secondary school teachers. The results revealed that majority of the secondary school teachers showed a moderate level of cognitive style and pedagogic content knowledge. There is a positive correlation between cognitive style and pedagogic content knowledge among secondary school teachers.

INTRODUCTION

education. They are said to be the builders of a nation. Teacher is the central log in the machinery of education. Thus in order to reform the society and the nation as a whole it was felt to pay special attention to the teachers and development of personality. The quality and worth of teachers determine the quality of education. Teaching facilitates learning. Learning is a complex phenomenon that has been explained differently. The teaching profession ranks high on the success list of a society. Henry Adams corroborates the above views with these words "A teacher affects eternity. One can never tell where his influence stops. He plays an important role in shaping and moulding the habits, the tastes, the manner and above all the character of the students He inculcates human values in the minds of the youngsters"

OBJECTIVES

- To find out the level of cognitive style among prospective teachers
- 2. To find out the level of pedagogic content knowledge among prospective teachers
- 3. To find out the relationship between cognitive style and pedagogic content knowledge 1. among secondary school teachers

HYPOTHESES

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- Teachers play the most important role in 1. The cognitive style among secondary school education. They are said to be the builders of a teachers is moderate
 - 2. The pedagogic content knowledge among secondary school teachers is moderate
 - There exists significant relationship between cognitive style and pedagogic content knowledge of secondary school teachers

METHODOLOGY

The investigator used survey method for conducting the study

SAMPLE

The present study has been conducted on a sample of 400 prospective teachers. The sample was selected by stratified random sampling & technique.

TOOLS USED FOR THE STUDY

The tools used for the study are

- 1. Cognitive style scale
- 2. Pedagogic content knowledge inventory

STATISTICAL TECHNIQUES USED

1. Descriptive statistics like mean, median, mode, SD, skewness and kurtosis.

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- 2. Test of significance of difference between mean scores.
- Karl Pearson's product moment coefficient of correlation

FINDINGS

It is clear from the table that 65% of secondary school teachers showed a moderate level of Cognitive style and 69% of them showed moderate level of Pedagogic content knowledge

Table 1 level of cognitive style and pedagogic content knowledge among secondary school teachers

Variablea	10W		Mederate		lligh		Total	
Y :ETAUTON	No	Ñ	Ус	0; /(No	%	No	ξ,
Cognitive style	61	20.3	36	95.3	45]4,3	300	100
PCK	-51	17.7	705	69	40	11	700	100

From table 2 shows that there is significant difference between private and government school teachers in their cognitive style. The private school teachers showed higher level of cognitive style than the government school secondary teachers.

Table 2 Difference between private and government school teachers in their extend of cognitive style

Varieties	Private		Gave	TIFEIII	Calculmed n° value	Remarks at 0.05 level
Cognit ve style	Mem	SOL	Mein 2	SD2	2.43	S
	80 46	13.98	76.73	12.69		

Table 3 shows significant association between cognitive style and total number of years of teaching experience.

Table 3: Association between cognitive style and total number of years of experience of secondary school teacher

Variable	Years of	'gar		moderate		high		Calculated chi-square	Remaiks at 0.05
	experience	U	ă.	U	Е	()	ŀ	vdce	eye
	1-10 yrs	25	26	88	83	.4	18		
Cognitive	11-20 yıs	27	18	50	57	::	13	13.58	3
S.y.è	21 yıs and above	9	7	58	36	18	12		••

Table 4 shows that there is no significant difference between men and women secondary school teachers in their level of cognitive style.

Table 4: Difference between Men and Women secondary school teachers in their extent of cognitive style

Variable	Men=146		Wene	n=154		Remarkia: 0.051g-el
Comilive	Mean.	SD:	Mean 2	SD3	- 1.61	NS.
style	76.36	(4.26)	79.85	12.54	1.31	45

The 't' value shown in table 5 indicates that there is a significant difference between urban and rural school teachers.

Table 5: Difference between urban and rural secondary school teachers in their extent of pedagogic content knowledge

Variable	UrbunS		Rush	-147	Calculated "El value	Remark at 0.05 level	
Pedagogio	Mear 1	\$D1	Mean 2	\$02			
content knowledge	133.84	(4.40)	146.73	18.75	3.67	S	

Table 6: Difference between married and unmarried secondary school teachers in their extent of pedagogic content knowledge

Variable	Marties	=199	Comerci	i2;=101		Renarkat 1005 leval
Petagegia	Mam I	SD 1	Moan 2	SD2		
contest knowledge	152.17	13.97	146,77	18.49	3.50	š

Table 7: Association between pedagogic content knowledge and total number of years of experience of secondary school teachers

Variable	Yours of experience	low		moderate		10.50		Calculated online rule	Remarks at 0.05	
		O.	3	O	Е	O	ŀ.	value	level	
Pe Lgegie	1-10 yrs 11-20 yrs	29	22	26	88	12	17			
cantent				75		8	13	14.05	5	
knowledge	21 yrs and above	9	15	.36	59	20 - 11				

Table 8: Relationship between cognitive style and pedagogic content knowledge among secondary school teachers

No	ΣΧ	9	Σλί	•	ΣΧΥ	Correlation coefficient	Remaras at 0.05 Ryel
300	21991	45106	1909503	6869054	3572050	3354	S

MAJOR FINDINGS

The following are the major findings of the study

- 1. Majority of the secondary school teachers showed a moderate level of cognitive style and pedagogic content knowledge
- 2. There is significant difference between private and government school secondary teachers in their extent of cognitive style
- 3. There is significant difference between urban and rural school secondary teachers in their extent of pedagogic content knowledge.
- There is significant difference between married and unmarried secondary school teachers in their extent of pedagogic content knowledge.
- 5. There is significant association between pedagogic content knowledge and total no. of years of teaching experience of secondary school teachers.
- There is a positive correlation between cognitive style and pedagogic content knowledge among secondary school teachers.

REFERENCES

Ausubel, D. P. (1968). Educational Psychology A Cognitive View. New York: Holt, Rinehart Wintson.

Best, J.W., &Khan, J.V. (2005). Research in education (9th ed.). New Delhi: Prentice hall of India.

Bhattacharyya, & Dipak, Kumar. (2006). Research Methodology. New Delhi: Excel Books.

Charles, C.M. (1998).Introduction to Educational Research. NewYork: Longman.

Ebel, R.L. (1972). Essentials of Educational Measurement. Engel Wood Cliffs: N, J. Crencice Hall.

Garret, H.E. (2008). Statistics in Psychology and Education. New Delhi: Surject Publication.

Kothari, C.R. (2004).Research Methodology; Methods and Techniques. NewDelhi: Newage International Publications.

Koul, Lokesh. (2005). Methodology of Educational Research. New Delhi: Vikas Publishing house Pvt. Ltd.

Mangal, S. K. (2010). Statistics in Psychology and Education (2nd ed.).New Delhi: PHI Learning Private Ltd.

Mohan, R., & Prameswaram. (2003). Research Methods in Education. Hyderabad: Neelkamal Publications Pvt. Ltd.

Sidhu, K. S. (2002). Methodology of Research in Education. New Delhi: Sterling Publishers Pvt. Ltd.