

# Socio Economic Status and Various Demographical Variables Determining the Attitude of Secondary School Teachers towards Information Technology

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**Abstract – Information technology is emerging demand and basic need of teaching-learning process that is a root of quality education. The present paper is an attempt to explore the socio economic status and various demographic factors that determining the attitude of secondary school teachers towards information technology. The study is descriptive in nature. Attitude Scale towards Information Technology for Teachers by Nasrin and Fatima Islahi and Socio-Economic Status Scale by O.P. Aggarwal are administered on a sample of 500 secondary school teachers of Fatehabad, Sirsa and Bhivani through purposive sampling technique. The result revealed a moderate significant relationship between socio economic status and attitude of secondary school teachers towards information technology. Further, the significant difference in attitude towards information technology has been found on the basis of gender, locality, nature of job, socio economic status and age of secondary school teachers.**

**Keywords: Information Technology, Socio-Economic Status, Secondary School Teachers.**

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## INTRODUCTION

In the modern era, technology has turned into an Integral piece of individuals' lives. The advance applications of technology influence the social, economic and social aspects of life. Even, the field of education is not an exception. Technology opens the vast opportunities of job in the field of education. Interactive technologies encourage the teaching-learning process and increasingly online world. Integrating technology into teaching-learning transaction has been changing the teacher's job from being the traditional Sage on the Stage to likewise being a Guide as an afterthought. Information technology assists to promote opportunities of knowledge that share throughout the world. Information technology helps both the teachers as well as the students to have up-to-date information and knowledge about the effective teaching-learning process. Haag (1988) suggested that information technologies are useful to offer the information at the time whoever required.

Technology is most persuasive when integrated with educational modules and evaluation. It can have most noteworthy impact when integrated into educational programs to accomplish clear and

quantifiable educational goals as well as provides the imaginative opportunities for teaching- learning, and induced advances in research, evaluating the structure of education. Review of literature shows that advance technologies and demand of modern era of education elevate the positive attitude of teachers to use new educational technologies while teaching (Foley & Ojeda, 2008; Karagiorgim & Charalambous, 2006). Numerous nations are emphasis on information technologies in educational practices (Hare, 2007; Moonen, 2008; Tilya, 2008) to providing ICT infrastructure in secondary and primary schools (Gaible and Burns, 2005).

Nyarusy (2006) found that in Tanzaina, teachers of private secondary schools focused on the application of ICT in teaching and learning. Afamasaga-Wright (2008) found that most of the secondary school teacher in Samoa used internet to search information for teaching. Gruich (2004) also revealed that teacher passion about the helpfulness of technology and integration of technology in instruction. Similarly Singh (2012) found a close relationship between quality of education and quality of teachers with positive attitude towards information technology.

Densen (2005) found no relationship between teacher's long term involvement in the homeroom as well as the levels of technology integration which do not influenced by Gender, age and ethnicity of the teachers. Further it was also found a relationship between teacher's skill levels and the different dimension of technology integration in education. Green (2006) explored that instructor efficacy was significantly identified with teacher's attitudes towards computer as their best practices, computer helpfulness, and computer efficacy as well as a negative relationship between educator efficacy and computer anxiety support that had more elevated amounts of confidence while teaching practice via use of computer.

The present paper is aimed to study (1) the relationship between socio economic status and attitude towards information technology of secondary school teachers; and (2); to find the difference in attitude towards information technology of secondary school teachers in relation to socio economic status and various demographic factors.

**Research Method:** Descriptive survey method was employed for the present study.

**Participants:** 500 governments and private secondary school teachers selected by purposive sampling technique from Fatehabad, Sirsa and Bhivani districts of Haryana.

**MEASURES**

**Attitude Scale towards Information Technology for Teachers** by Nasrin and Fatima Islahi (2012) used for the present study. The scale is 7 point Likert scale, having 30 statement consisted in 4 factors naming: Impact of Information Technology; Usefulness for students; Productivity for teaching; Teacher's Interest and Acceptance. The scale has high internal consistency is 0.89 and good face and content validity.

**Socio-Economic Status Scale** by O.P. Aggarwal (2005) is 5 point Likert Scale, having 22 statements based on individual's social and economic position and assets. Investigator established scale's internal consistency (0.79) and intrinsic validity 0.88 by administering existing scale on 400 secondary school teachers of Haryana State.

**Analysis and Interpretation of the Data:** The data was analyzed by employed SPSS-21. The age range of the secondary school teachers was 22 to 56 years and mean and SD was 17.28 ± 4.23 years.

**DESCRIPTIVE ANALYSIS OF THE SAMPLE**

**Table 1: Frequency distribution of the Sample**

Demographical Variables		N	%	Mean	SD
Gender	Male	237	47.4	101.26	9.53
	Female	263	52.6	113.63	8.14
School	Government	289	57.8	111.58	9.42
	Private	211	42.2	110.47	9.11
Locale of Residence	Urban	229	45.8	104.74	9.49
	Rural	271	54.2	107.00	10.01
Nature of Job	Permanent	354	70.8	103.68	9.49
	Temporary/ad-hoc	146	29.2	104.05	9.97
SES	High	151	30.2	106.01	9.01
	Average	260	52	108.61	9.87
	Low	89	17.8	98.02	7.04
Age group	Less than 25	79	15.8	89.45	8.34
	26 to 35 years	139	27.8	108.02	9.73
	36 to 45 years	198	39.6	109.19	8.47
	Above 45	84	16.8	107.03	9.59
Teaching Experience	Less than 10 years	93	18.6	97.79	7.91
	11 to 20 years	157	31.4	103.17	8.93
	20 to 30 years	142	28.4	110.27	11.24
	Above 30 years	108	21.6	115.66	10.29

**Table 2: Relationship between Attitude towards Information Technology and Socio Economic Status of Secondary School Teachers**

	Socio-Economic Status
Information Technology	0.67**
	0.000
Significant at 0.01 level	

Table 2 shows that a moderate significant relationship between attitude of secondary school teachers towards information technology and socio economic status ( $r=0.67, p<0.01$ ) which indicates that socio economic status associated with the attitude towards learn, use sources of information technology by teachers for teaching learning process. It is observed that the teachers encompass high and upper high socio economic status have different technologies as recourse of information i.e. multimedia, computer, internet, email etc. that they can easily assess those for teaching process. A result by Straker, Pollock, Zubrick, and Kurinczuk (2006) that Computer use was also significantly related to socio-economic is support the existing finding.

**Table 3: Summary of One-Way ANOVA**

Factors	Source of Variation	Sum of Square	df	Mean Square	F	P
Gender	Between Group	14.78	1	.308	1.44	.032*
	Within Group	96.10	498	.213		
Type of School	Between Group	11.56	1	.241	1.06	.364
	Within Group	102.18	498	.227		
Locale of Residence	Between Group	13.42	1	.274	1.30	.092*
	Within Group	94.91	498	.227		
Nature of Job	Between Group	16.42	1	.342	1.87	.001**
	Within Group	82.12	498	.182		
SES	Between Group	61.98	2	1.804	1.313	.000**
	Within Group	435.02	497	.164		
Age group	Between Group	53.886	3	1.123	1.86	.001**
	Within Group	271.06	496	.601		
Teaching Experience	Between Group	49.554	3	1.032	1.19	.181
	Within Group	389.28	496	.863		

Table 3 is showing significant difference between information technology of different groups of teachers i.e. gender ( $F = 1.44, p = .032$ ); and locale of residence ( $F = 1.30, p = 0.092$ ) significant at 0.05 level, whereas, nature of job ( $F = 1.87, p = .001$ );

socio economic status ( $F = 1.31, p = .000$ ); and age ( $F = 1.86, p = .001$ ); also significant differs on 0.01 level of significance. On the other hand, it is found that type of school ( $F=1.06, p= 0.364$ ); and teaching experience ( $F= 1.19, p = 0.181$ ) of secondary school teachers do not significantly differ on the scores of attitude towards information technology neither 0.05 level nor 0.01 level of significance. Angadi (2014) also found a significant gender difference in secondary school teachers' attitudes towards information and communication technology.

It is observed from the above table that gender, locality, job, socio economic status and age of secondary school teachers influence their attitude to use information technology devices i.e. internet, telecommunicate services that helps to develop their skills and knowledge to improve quality of teaching and education. Secondary school teachers believed that information technology makes their teaching process worthy and significantly fulfill the demands of education as well as helps to be a better teacher with the use of technology as an instructional device. This finding is supported by the result of Chen and Chang (2006) who found that pre- school teachers and teacher candidates take education for using new technologies determined and improve the education.

## CONCLUSION:

It can be concluded in the context of the existing study that different factors determine the attitude of secondary school teachers towards information technology. The findings of the study show a relevance to both teachers and the educational policy-makers. They should Eliminating and/ or minimize the barriers to use information technologies and facilitate teaching learning process as virtual learning community. In nutshell, it can be say that knowledge and use of information technology also has found that the knowledge of ICT will be vastly helpful in the progress of educational institutions as well as both teacher and learners to meet the International standards of global education.

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