# RELATIONSHIP BETWEEN ICT COMPETENCY AND KNOWLEDGE COMPETENCY OF DISTANCE MODE B.ED. STUDENTS 

## ABSTRACT

 skills for teaching students, who must be able survive economically in todays work on
## INTRODUCTION

India is a developing country. The main factor that made India a developing country is its educational wealth though the nation is poverty stricken. The progress of a nation depends on its education. Education is a human process, which involves the teacher and the taught. The teacher is the Kingpin of the process. The teaching profession is regarded as the most important profession as its educational and social values lie in its significant contribution to the development in the quality of life and betterment of the society. Today's classroom teachers must be prepared to provide technology-supported learning opportunities for their students. Being prepared to use technology and knowing how that technology can support student learning must become integral skills in every teacher's professional repertoire. ICTs have great potential for knowledge dissemination, effective learning and the development of more efficient education services.

ICT can also help to accelerate teacher training as the world is facing an acute and growing shortage of teachers with currently 60 million teachers in the world, but another 15-35 million needed to achieve Education for All by 2015 . However, effective integration of emerging ICTs in traditional education models is impeded by many factors. A keyretardation factor relates to the lack of proper IC T competencies on the part of teachers.

Teachers must be prepared to empower students with the advantages technology can bring. Schools and
classrooms, both real and virtual, must havetern are equipped with technology resources and who can effectively teach the necessary subje content while incorporating technology concepour Real-world connections, primary sourcemal sophisticated data-gathering and analysis toolk ${ }^{\mathrm{W}}$ few of the resources that enable teachers ${ }^{\text {is }}$ heretofore unimaginable opportunities form is understanding.

## OBJECTIVES OF THE STUDY

1. To find out the level of ICT Comptre Performance Competency of the distancerm ${ }^{\text {I }}$ students with reference to certain backgrount
2. To find out the difference in ICT Comps Knowledge Competency of the distancem students with reference to certain backgrous
3. To find out the relationship between ICTO and Knowledge Competency of distancertio students with reference to certain back groum

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## POTHESES OF THE STUDY

There is no significant difference in ICT Competency of distance mode B.Ed. students with reference to certain background variables.

There is no significant difference in Knowledge Competency of distance mode B.Ed. students with reference to certain background variables.

There is no significant relationship between ICT Competency and Knowledge Competency of distance mode B.Ed. students with reference to certain background variables.

## THODOLOGY

This study was carried out among distance mode d. students (In-service Teachers) of Nagercoil and durai B.Ed. study centers of the Directorate of Distance ucation, Madurai Kamaraj University. The method owed by the investigator was the survey method and sus study sampling technique was used. The ICT npetency scale and the Knowledge Competency stionnaire were validated and used by the investigator.

## PULATION AND SAMPLE

The population of the study included the distance de students of Nagercoil and Madurai B.Ed. study ters of the Directorate of Distance Education, Madurai maraj University, Madurai.

## SEARCH TOOL

the present study the following tools were used:
ICT Competency Scale, prepared \& standardized by the investigator.

Knowledge Competency Questionnaire, prepared \& standardized by the Investigator.

## ATISTICAL TECHNIQUES USED

The following statistical techniques were used for ulysis and interpretation of the data.

1. Mean and Standard Deviation
2. ' $t$ 'Test to find out the significant difference.
3. Pearson's Product-Moment Correlation

## OBJECTIVE TESTING

1. To find out the level of the ICT

Competency of the distance mode B.Ed. students with reference to certain background variables.

| Background <br> variables | Category | Low |  | Average |  | High |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No. | $\%$ | No. | $\%$ | No. | $\%$ |
| Gender | Male | 22 | 19.5 | 66 | 58.4 | 25 | 22.1 |
|  | Female | 20 | 23 | 53 | 60.9 | 14 | 16.1 |
| Marital <br> Status | Married | 18 | 20.2 | 58 | 65.2 | 13 | 14.6 |
|  | Unmarrie | 20 | 18 | 68 | 61.3 | 23 | 20.7 |
| Locality of <br> School | Rural | 32 | 18.6 | 114 | 66.3 | 26 | 15.1 |
|  | Urban | 3 | 10.7 | 21 | 75 | 4 | 14.3 |

2. To find out the level of the Performance Competency of the distance mode B.Ed. students with reference to certain background variables.

| Background <br> variables | Category | Low |  | Average |  | High |  |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No. | $\%$ | No. | $\%$ | No. | $\%$ |
| Gender | Male | 19 | 16.8 | 71 | 62.8 | 23 | 20.4 |
|  | Female | 12 | 13.8 | 57 | 65.5 | 18 | 20.7 |
| Marital Status | Married | 20 | 22.5 | 51 | 57.3 | 18 | 20.2 |
|  | Unmarrie | 19 | 17.1 | 68 | 61.3 | 24 | 21.6 |
| Location of <br> School | Rural | 27 | 15.7 | 114 | 66.3 | 31 | 18 |
|  | Urban | 5 | 17.9 | 17 | 60.7 | 6 | 21.4 |

## HYPOTHESES TESTING

1. There is no significant difference in the ICT Competency of the distance mode B.Ed. students with reference to certain background variables.

| Back <br> ground <br> variables | Category | Count | Mean | SD | t. <br> value | Rem <br> ark |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Gender | Male | 113 | 51.5 | 11.3 | 2.57 | S |
|  | Female | 87 | 48.05 | 7.61 | .1 |  |
| Marital <br> Status | Married | 89 | 46.89 | 8.3 | .4 .2 | S |
| Locality of <br> Unmarried <br> School | 111 | 52.5 | 10.5 | .2 |  |  |
|  | Urban | 172 | 47.49 | 8.11 | 14.3 | S |

2. There is no significant difference in the Performance Competency of the distance mode B.Ed. students with reference to certain background variables.

| Back <br> ground <br> variables | Category | Count | Mean | SD | t- <br> value | Rem <br> ark |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Gender | Male | 113 | 49.46 | 10.9 | 0.89 | NS |
|  | Female | 87 | 50.7 | 8.7 |  |  |
| Marital <br> Status | Married | 89 | 47.04 | 10.4 | 3.81 | S |
| Locality of <br> School | Unmarried | 111 | 52.37 | 8.95 | 172 | Rural |
|  | Urban | 172 | 48.51 | 9.78 | 8.38 | S |

3. There is no significant relationship between ICT Competency and Performance Competency of the distance mode B.Ed. students with reference to certain background variables.

| Back <br> ground <br> variables | Category | $\mathbf{N}$ | Table <br> Value | $\boldsymbol{\gamma}$ <br> value | Rema <br> rks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Gender | Male | 113 | 0.195 | 0.313 | S |
|  | Female | 87 | 0.217 | 0.042 | NS |
| Marital <br> Status | Married | 89 | 0.205 | -0.037 | NS |
|  | Unmarried | 111 | 0.195 | 0.304 | S |
| Locality of <br> School | Rural | 172 | 0.159 | -0.042 | NS |
|  | Urban | 28 | 0.374 | 0.39 | S |

## FINDINGS

1. ICT Competency of distance mode B.Ed. students is found to be average.
2. Knowledge Competency of distance mode B.Ed. students is found to be average.
3. There is a significant difference in the ICT Competency of the distance mode B.Ed. students with reference to their gender, marital status and locality of the school.
4. There is no significant difference in the Knowledge Competency of the distance mode B.Ed. students with reference to their gender.
5. There is a significant difference in the Knowledge Competency of the distance mode B.Ed. students with reference to their marital status and locality of the school.
6. There is significant relationship between ICT Competency and Knowledge Competency of male distance mode B.Ed. students.
7. There is no significant relationship between ICT Competency and Knowledge Competency of female distance mode B.Ed. students.
8. There is no significant relationship between ICT Competency and Knowledge Competency of married distance mode B. Ef easins
9. There is significant relationship betw FERI Competency and Knowledge Comper Helen unmarried distance mode B.Ed. students, Micro
10. There is no significant relationship betilhutp:/ Competency and Knowledge Competeng distance mode B.Ed. students.
11. There is a significant relationship betuy http: Competency and Knowledge Competency http

A major finding of this study is, there is as John difference in ICT competency between male and distance mode B.Ed. students. This is supportitep finding of Gurkay Birinci, A. and Kerem Kilicer Instr who conducted a study on "The pre-service te Hall competency perceptions regarding technologypl , though opposed to that of Hernes et al. (2000) and Farren (2000) also expressed similar opinió of Hernes et al. (2000). The reason for this dise V $A$ is not immediately clear. The instrument used or varied on their emphases on pedagogical use of

## CONCLUSION

Rapid changes in technology will ensure ${ }_{\text {st }}$ will proliferate in the classroom. It is predicted $t_{i}$ will be many benefits for both the leamer and the it including the promotion of shared working sp resources, better access to information, the proill collaborative learning and radical new ways oft and learning. ICT will also require a modificalic role of the teacher, who in addition to classroomy will have other skills and responsibilities. NJ become specialists in the use of distributed techniques, the design and development of shared spaces and resources, and virtual guides for stulu use the electronic media. Ultimately, the use 0 enhance the learning experiences of children, hel
think and communicate creatively. ICT will also prepare ir children for successful lives and careers in an creasingly technological world.

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## ISTRUCTIONAL DESIGN ....

EVALUATION PHASE
Formative evaluation
Formative evaluation is presented in each stage of eprocess. In the e-Content package, Frequently Asked restion (FAQ), Quiz and Glossary options are to be pvided for formative evaluation, which are helpful to students for their self assessment.

## Summative evaluation

Summative evaluation consists of tests designed Criterion-referenced items. It is to appear prior to trance into a given instructional sequence which is called -test and also to appear after completion of the tructional sequence which is called post-test. It provides portunities for feedback from the students about the -ontent package.

## GENERAL CONCLUSION

(i) A cell for e-Content should be established in all the schools, colleges and universities. Faculties of the schools, colleges and universities should be involved to prepare e-Content packages in their respective subjects.
(ii) University's Education Departments, Educational Multi-media Research Centres and Colleges of Education should train the faculties of the schools, colleges and universities for preparation of e-Content.
(iii) Useful subject oriented web sites can be created and also utilized to deliver the validated e-Content packages for the benefit of the learners.
(iv) Continuous Assessment cell on e-Content will be established for improvement of the programme.

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