



E-learning Opportunities & Prospects in Higher Education Institutions of Khyber Pakhtunkhwa, Pakistan

By Ghulam Muhammad Kundi & Allah Nawaz

Gomal University Dera Ismail Khan, Pakistan

Abstract - Both opportunities and prospects are sometimes used interchangeably however, in this paper, opportunity refers to the 'availability of eLearning resources and service' while prospects denote 'futuristic expectations about the role of information and communication technologies (ICTs) in higher education institutions (HEIs). The empirical findings suggest that people score lower on opportunities but significantly high on the prospects showing that they are not quite happy with the facilities and services available (due to the development, implementation and use problems – or simply management problems of eLearning). But they can clearly foresee the significant role of ICTs or education technologies (ETs) in future in the context of developing countries like Pakistan. Furthermore, these differences are attributed to the demographic diversities of the respondents, meaning that the demographic variation changes the power and direction of the user-attitudes towards eLearning. This paper uses stepwise regression to gradually glean-out the most significant predictors of opportunities and prospects from a group (eight) of demographics.

Keywords : *ICTS, ETS, HEIS, VLE, elearning, eteaching, epedagogy, ecourses, opportunities, prospects, demographic-attributes.*

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Abstract - Both opportunities and prospects are sometimes used interchangeably however, in this paper, opportunity refers to the 'availability of eLearning resources and service' while prospects denote 'futuristic expectations about the role of information and communication technologies (ICTs) in higher education institutions (HEIs). The empirical findings suggest that people score lower on opportunities but significantly high on the prospects showing that they are not quite happy with the facilities and services available (due to the development, implementation and use problems – or simply management problems of eLearning). But they can clearly foresee the significant role of ICTs or education technologies (ETs) in future in the context of developing countries like Pakistan. Furthermore, these differences are attributed to the demographic diversities of the respondents, meaning that the demographic variation changes the power and direction of the user-attitudes towards eLearning. This paper uses stepwise regression to gradually glean-out the most significant predictors of opportunities and prospects from a group (eight) of demographics.

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I. INTRODUCTON

Opportunities are the user-perceived benefits in ICTs while Prospects refer to the perceived future of ETs or eLearning tools in higher education. The opportunities and particularly, prospects are very highly scored around the world. Teachers, students and administrators are very positive about the existing opportunities provided by the ICTs and the future of these technologies in higher education. Even when many problems are reported by the respondents with regard to the installation and use of eLearning systems, they score high on the opportunities and prospects showing that despite the problems, ICTs have the future. It also shows that users believe in the opportunities conceived in these technologies but there are problems in their management and use.

The current trend in eLearning ventures is collaborative development and operation. The researchers have documented volumes of research

suggesting that if eLearning is build more according to the contextual demands, there are brighter chances of a successful effort (Chan & Lee, 2007). Traditionally, 'one-for-all' model has prevailed, which did not appear as a good option in many situations thereby opening research about the contextual determinants of eLearning projects. Researcher over research has confirmed that compatibility of new tools with user-demographics and environmental dimensions are the only criteria for future eProjects of eLearning in HEIs (Nawaz & Kundi, 2010a).

This gap is indicative of the problems and obstacles which are holding back the university constituents to fully integrate ICTs in their teaching, learning and administrative functions. These barriers come from the user-demographics and the factors concerning eLearning-environments in HEIs, such as, ETs, Development and Use practices, and User Training and Satisfaction etc, meaning that the gap is between the 'user and environmental-requirements' and 'whatever is available to the users in practice – the contextual mismatch' (Nawaz et al., 2007; Qureshi et al., 2009; Nawaz & Kundi, 2010b). This paper is an effort to study the stepwise regression to gradually glean-out the most significant predictors of opportunities and prospects from a group (eight) of demographics in HEIs of Khyber Pakhtoonkhwa, Pakistan.

II. LITERATURE REVIEW

ICTs are providing several opportunities to all the countries of the world thereby creating the brighter prospects of eLearning particularly for the developing states in handling their long-standing problems of mass education (Tinio, 2002; Oliver, 2002). ICTs are capable to increase the opportunities of active learning, inter-connectivity, enhanced feedback (Abrami et al., 2006) and a working environment of teamwork and collaboration (Chan & Lee, 2007). Views of the eLearning-users are founded on their 'digital-literacy' which builds their attitudes towards ICTs, ETs and eLearning in higher education (Kundi & Nawaz, 2010) as well their demographic attributes (Nawaz & Kundi, 2010a).

a) Opportunities of eLearning

A repeated claim of the technology-proponents is that ICTs conceive unprecedented opportunities,

Author α σ : Assistant Professo Department of Public Administration Gomal University Dera Ismail Khan, Pakistan.
E-mails : kundi@gu.edu.pk, profallahnawaz@gmail.com

particularly, for the 'developing-countries'. This optimism is founded on the premise that the miraculous capabilities of the digital-gadgets have transformed the society into a 'global-village' through a kind of connectivity, which is never quoted in the history of mankind (Nawaz et al., 2007). UNESCO (2007) reports that the use of ICTs in and for education is rapidly expanding in many countries and considered both as a necessity and an opportunity. Research also suggests that ICTs offer new learning opportunities for students (eLearning), develop teacher's professional capabilities (ePedagogy) and strengthen institutional capacity (eEducation) (Ezziane, 2007) and most universities today offer some form of eLearning (Kanuka, 2007).

Virtual learning environments (VLEs) have emerged with tools and techniques for the course-management and interactivity of teachers and learners through a long line of opportunities particularly, the web-based applications, which enable not to simply deliver knowledge rather empower learners to develop research skills and capitalize on web to "harvest knowledge (Gray et al., 2003)." Similarly, Internet offers opportunities which need to be explored, the technologies are designed well and used as intended (Wijekumar, 2005). Thus, eLearning offers a "great and exciting opportunities for both educators and learners (Manochehr, 2007)."

One of big expectations tied to e-learning speaks about its ability to introduce equal education to everyone. Authors of this assert that the possibility of e-courses to reach any corner of our planet will lead to the opportunity of delivering same high-quality education everywhere. The biggest optimists have a vision of top-ranking universities acting over the Internet using ready-made courses for huge amounts of students in Third-World countries. In accordance to well-known practices of e-learning, the students would study on their own pace by self-learning (Hvorecký, 2005). Because e-learning is supported by internet and web technologies, which are delivered via end-user computing that creates connectivity between people and information, and offers opportunities for social learning approaches (Luck & Norton, 2005). For example, a new feature of eLearning 'Blogs' provide the opportunity for feedback from anyone in the world creating limitless collaborative options. Succinctly, they are potentially powerful collaborative tools to build writing ability (Drexler et al., 2007).

New technologies reduce transaction costs for reproduction and distribution to a minimum. In principle, ICTs offer the opportunity to merge two formerly distinct processes, publishing and archiving, into one integrated activity. To put a document in an online repository is simultaneously a step to publish it. Without covering the full range of possibilities, we discuss three different types: self-archives online-journals and pre-print-servers (Pfeffer, 2004). As we entered into the third millennium,

education via internet, intranet or network represents great and exciting opportunities for both educators and learners (Manochehr, 2007). While instructors cannot always accommodate each student's need, it is important that several learning opportunities are provided (Manochehr, Naser-Nick (2007)).

b) *Prospects of eLearning*

Universities are challenged to integrate ICTs into their strategies, their institutions and educational processes. Policy responses are better if devised at national and supranational levels, the major aims being the improvement of quality and flexibility, the widening access to the field of tuition, the possibility of reaching populations as yet un-reached by higher education. Such missions are those of the "Mega-Universities", those large distance education institutions which are already broadening the scope of higher education in several countries. When ICTs are adapted to local technological conditions, they become a major tool both for on-campus students, and for reaching the new target groups engaged in lifelong learning processes or on professional markets (Loing, 2005).

Researchers predict the prospects of 'multi-versities' focusing on the provision of a large diversity of programs, and 'flexi-versities' featuring market specialization and staff and student flexibility. This change in the universities represents a move "from being scholarly ivory towers to information corporations (UQA, 2001)." Thus, ICTs have prospects for universities in developing countries to improve their teaching and learning processes. It is argued that, universities in developing countries should adopt eLearning technologies to improve teaching and learning processes. Pedagogical, technical and cost issues should be taken into account for each specific technology when integrating ICTs in teaching and learning practices (Sife et al., 2007).

ICT-based education is seen as "the dominant engine for productivity improvement and business opportunities" and "a key factor for generating future employment"(Hagan, 2003). For instance virtual or distance learning can help to overcome the problems associated with geographical isolation and is invaluable for students in remote areas.

Distance learning educational software also benefits from economies of scale increasing cost efficiencies. Recruiting teachers for the more remote regions is often difficult in Developing Countries; ICT serves to counteract physical distance as teachers can maintain contact with family and friends through telephone and e-mail (Wims & Lawler, 2007). However, to increase the prospects of eLearning to improve higher education requires reshaping of the mindset and practices in the teaching, learning and educational administration (Thompson, 2007; Qureshi et al., 2009; Kundi & Nawaz, 2010).

c) *Demographic Implications*

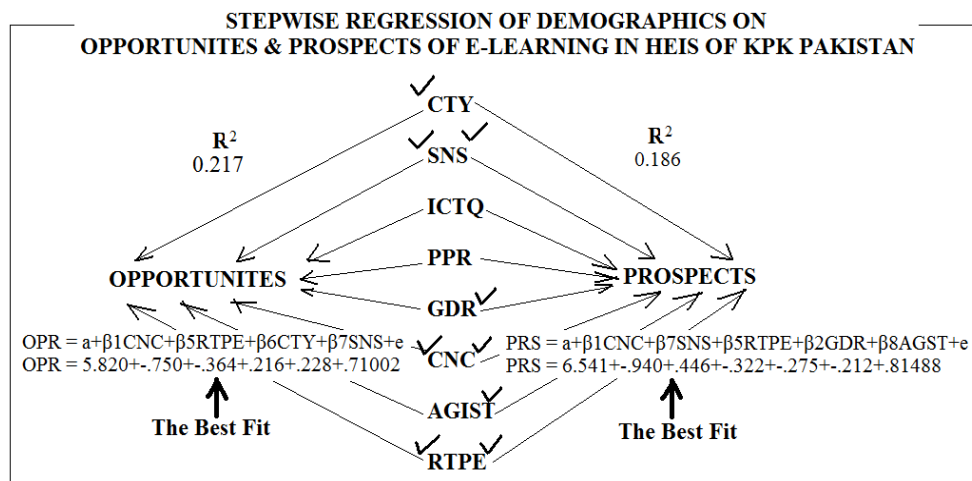
Research shows that despite the claimed advantages of eLearning, problems can arise if new systems are not compatible with the learner characteristics like nationality and gender (Graff et al., 2001). Although, with regard to an individual user, two key factors are users' motivation towards eLearning and their capabilities in using eLearning facilities (Lynch et al., 2005) however, the users' attitude towards ETs depends on their personal characteristics including age, gender, teacher-centric vs. student-focused teaching and learning, digital literacy, and learning styles (Cagiltay et al., 2006). Other researchers support this idea by noting that teachers' use of ICTs is influenced by the factors like: demographic-attributes (age, educational background etc); access to hardware; experience in using computers and perceptions about the usefulness and ease of using new digital gadgets (Mehra & Mital, 2007).

Thus, the demographic impacts on user perceptions, theories, and attitudes on the development

and use of eLearning in HEIs are well documented (Valcke, 2004; Gay et al., 2006; Wims & Lawler, 2007). The developers of eLearning systems are repeatedly advised to address demographic differences through devising such strategies, which generate and sustain positive attitudes of users in eLearning environments (Gay et al., 2006). These differences emanate from the user-characteristics of gender, age, educational level, computer skills, previous experience with eLearning, learning styles, personal goals and attitudes, preferences, cultural background and motivation (Moolman & Blignaut, 2008; Nawaz & Kundi, 2010a).

Figure 1 portrays a graph of the theoretical model showing the structure and distribution of the hypothesis tested for this publication and empirical outputs computed through stepwise regression analysis. Both R² and the best-fit models have also been given in the figure.

Figure 1 : Schematic Diagram of the Theoretical Framework



III. RESEARCH DESIGN

Survey approach has been used in this project by selecting a sample from the population of teachers, students and administrators in the higher education of the KPK. Population of this study includes all the HEIs in the province while sample included all the institutions in two cities of Peshawar and Dera Ismail Khan (DIK) (big & small cities respectively), selected due to the following features:

- a. Peshawar (big city) and Dera Ismail Khan (DIK) (small city).
- b. Both the cities host two of the oldest universities of the province (University of Peshawar – 1950 and Gomal University - 1974).
- c. The cities have both the oldest as well as new universities (pre-2000 and the post-2000) working in public and private sectors.

- d. These institutions are populated with students, teachers and administrators from almost all cities and areas of the province.

A structured questionnaire was developed from the existing literature by extracting both research and demographic variables. Besides demographics, the variables were about the perceptions of users about educational technologies, their available opportunities and expectations of the students, teachers and administrators about the future prospects of eLearning in HEIs (30 items on 7-point scale). The questions relating to the available opportunities and future prospects were 9 and 7 respectively. The Cronbach's alpha was estimated at 0.9288, with 354 cases and 38 survey items (with eight demographics). This value is acceptable as it exceeds the required minimum score of 0.7 for overall reliability (Koo, 2008).

We used SPSS 12.0 to create the database for applying statistical procedures to produce descriptive tables and test the hypotheses for inferential analysis. For testing of hypotheses, stepwise multiple regression procedures was used to gradually eliminate the weak predictors from the 'best-fit' for the prediction of opportunities and prospects. Two research-variables

(Current Opportunities and Future Prospects of eLearning) were selected for computing the impacts of eight demographics on the respondents' attitudes. All the demographic-attributes were converted into 'Dummy-variables' with 0 and 1 as codes for all the variables.

IV. FINDINGS OF THE STUDY

a) Demographic Groups

Table 1 : Frequencies of the Demographic Groupings (n=354)

| 1 | City - CTY | Frequency | Percent | Valid Percent |
|---|-----------------------------------|-----------|---------|---------------|
| | Small City (D. I. Khan) | 145 | 41.0 | 41.0 |
| | Big City (Peshawar) | 209 | 59.0 | 59.0 |
| 2 | Science/Non-Science - SNS | | | |
| | Science Respondents | 152 | 42.9 | 42.9 |
| | Non-Science Respondents | 202 | 57.1 | 57.1 |
| 3 | ICT Qualification - ICTQ | | | |
| | Formal Computer Qualification | 119 | 33.6 | 33.6 |
| | Informal Computer Qualification | 235 | 66.4 | 66.4 |
| 4 | Public/Private - PPR | | | |
| | Public Universities | 180 | 50.8 | 50.8 |
| | Private Universities | 174 | 49.2 | 49.2 |
| 5 | Gender - GDR | | | |
| | Male Respondents | 241 | 68.1 | 68.1 |
| | Female Respondents | 113 | 31.9 | 31.9 |
| 6 | Computer/Non-Computer - CNC | | | |
| | Computer (as a Subject) | 101 | 28.5 | 28.5 |
| | Non-Computer (other Subjects) | 253 | 71.5 | 71.5 |
| 7 | Age of the Institute - AGIST | | | |
| | Pre2000 (established before 2000) | 191 | 54.0 | 54.0 |
| | Post2000 (established after 2000) | 163 | 46.0 | 46.0 |
| 8 | Respondent-Type - RTPE | | | |
| | Student Respondents | 132 | 37.3 | 37.3 |
| | Teachers & Administrators | 222 | 62.7 | 62.7 |

b) Regression of Demographics on Opportunities of eLearning

i. Models, Coefficients & Excluded Variables (OPR)

Table 2 : Showing the Details of the FOUR Models

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | F | Sig. |
|----------------------|--|----------|-------------------|----------------------------|--------|---------|
| 1 | .376(a) | .141 | .139 | .74047 | 57.803 | .000(a) |
| 2 | .430(b) | .185 | .180 | .72242 | 39.768 | .000(b) |
| 3 | .452(c) | .205 | .198 | .71461 | 29.999 | .000(c) |
| 4 | .466(d) | .217 | .208 | .71002 | 24.177 | .000(d) |
| Detail of the Models | a Predictors: (Constant), CNC b Predictors: (Constant), CNC, RTPE c Predictors: (Constant), CNC, RTPE, CTY d Predictors: (Constant), CNC, RTPE, CTY, SNS e. Dependent Variable: OPPORTUNITES | | | | | |

Table 3 : Showing the Coefficients of Regression in FOUR Models

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 5.787 | .074 | | 78.544 | .000 |
| | CNC | -.663 | .087 | -.376 | -7.603 | .000 |
| 2 | (Constant) | 5.982 | .085 | | 70.555 | .000 |
| | CNC | -.632 | .085 | -.358 | -7.411 | .000 |
| | RTPE | -.346 | .080 | -.210 | -4.337 | .000 |
| 3 | (Constant) | 5.826 | .099 | | 58.779 | .000 |
| | CNC | -.595 | .085 | -.337 | -6.972 | .000 |
| | RTPE | -.357 | .079 | -.216 | -4.519 | .000 |
| | CTY | .231 | .078 | .142 | 2.952 | .003 |
| 4 | (Constant) | 5.820 | .099 | | 59.081 | .000 |
| | CNC | -.750 | .107 | -.425 | -6.982 | .000 |
| | RTPE | -.364 | .078 | -.221 | -4.644 | .000 |
| | CTY | .216 | .078 | .134 | 2.777 | .006 |
| | SNS | .228 | .097 | .142 | 2.354 | .019 |

Dependent Variable: Opportunities of eLearning in HEIs of KPK, Pakistan

Table 4 : Showing the Excluded Variables in FOUR Models

| Model | | Beta | t | Sig. | Partial Correlation | Collinearity Statistics |
|-------|-------|----------|--------|------|---------------------|-------------------------|
| | | | | | | Tolerance |
| 4 | ICTQ | .028(d) | .327 | .744 | .018 | .307 |
| | PPR | -.077(d) | -1.527 | .128 | -.082 | .881 |
| | GDR | -.033(d) | -.660 | .510 | -.035 | .926 |
| | AGIST | -.015(d) | -.320 | .749 | -.017 | .965 |
| | | | | | | |

ii. Analysis I

Regression models in table 2 gives the detail of all four procedures applied to find the best fit equation to predict the opportunities of eLearning as expressed by the respondents with differing demographic features. As given in the table, first model explains 14% of the variation in opportunities however as the new models are developed the percentage goes up and ultimately,

fourth model predicts 22% of the dependent variable. Similarly, table 4 gives a list of excluded variables with p-values greater than the required .05 to test the hypotheses.

The best fit equation is:

$$OPR = a + \beta_{1CNC} + \beta_{5RTPE} + \beta_{6CTY} + \beta_{7SNS} + e$$

$$OPR = 5.820 + -.750 + -.364 + .216 + .228 + .71002$$

c) Regression of Demographics on Prospects of eLearning

i. Models, Coefficients & Excluded Variables (PRS)

Table 5 : Showing Coefficients of Regression in FIVE Models

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate | F | Sig. |
|----------------------|--|----------|-------------------|----------------------------|--------|---------|
| 1 | .329(a) | .109 | .106 | .84816 | 42.860 | .000(a) |
| 2 | .369(b) | .136 | .131 | .83603 | 27.702 | .000(b) |
| 3 | .394(c) | .155 | .148 | .82810 | 21.408 | .000(c) |
| 4 | .416(d) | .173 | .164 | .82043 | 18.252 | .000(d) |
| 5 | .432(e) | .186 | .175 | .81488 | 15.955 | .000(e) |
| Detail of the Models | a Predictors in the Model: (Constant), CNC b Predictors in the Model: (Constant), CNC, SNS c Predictors in the Model: (Constant), CNC, SNS, RTPE d Predictors in the Model: (Constant), CNC, SNS, RTPE, GDR e Predictors in the Model: (Constant), CNC, SNS, RTPE, GDR, AGIST f Dependent Variable: PRC PRS | | | | | |

Table 6 : Showing Coefficients of Regression in FIVE Models

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 6.203 | .084 | | 73.499 | .000 |
| | CNC | -.654 | .100 | -.329 | -6.547 | .000 |
| 2 | (Constant) | 6.169 | .084 | | 73.611 | .000 |
| | CNC | -.911 | .125 | -.459 | -7.304 | .000 |
| | SNS | .382 | .114 | .211 | 3.360 | .001 |
| 3 | (Constant) | 6.311 | .097 | | 64.735 | .000 |
| | CNC | -.899 | .124 | -.453 | -7.267 | .000 |
| | SNS | .397 | .113 | .219 | 3.516 | .000 |
| | RTPE | -.255 | .091 | -.137 | -2.785 | .006 |
| 4 | (Constant) | 6.421 | .105 | | 61.430 | .000 |
| | CNC | -.888 | .123 | -.448 | -7.249 | .000 |
| | SNS | .414 | .112 | .229 | 3.695 | .000 |
| | RTPE | -.321 | .094 | -.173 | -3.424 | .001 |
| | GDR | -.267 | .097 | -.139 | -2.752 | .006 |
| 5 | (Constant) | 6.541 | .115 | | 56.780 | .000 |
| | CNC | -.940 | .124 | -.474 | -7.606 | .000 |
| | SNS | .446 | .112 | .246 | 3.981 | .000 |
| | RTPE | -.322 | .093 | -.174 | -3.462 | .001 |
| | GDR | -.275 | .096 | -.143 | -2.854 | .005 |
| | AGIST | -.212 | .088 | -.118 | -2.402 | .017 |

Dependent Variable: Prospects of eLearning in HEIs of KPK.

Table 7 : Showing the Excluded Variables from FIVE Models

| Model | | Beta In | t | Sig. | Partial Correlation | Collinearity Statistics |
|-------|------|----------|-------|------|---------------------|-------------------------|
| | | | | | | Tolerance |
| 5 | CTY | .088(e) | 1.787 | .075 | .095 | .963 |
| | ICTQ | -.017(e) | -.198 | .843 | -.011 | .310 |
| | PPR | .038(e) | .451 | .652 | .024 | .333 |

d) Analysis II

The first model (table 5) explains 11% of the variation in dependent variable however, this prediction power increases gradually with the succeeding models of regression and finally reaching the level of 19% prediction of the prospects. The fifth model includes five factors as the best fit variables explaining maximum of variation in the dependent variable. The excluded

variables (table 7) appear with p-values (.075, .843, and .652) which are far greater than the required threshold of .05.

The best fit is:

$$PRS = a + \beta_{1CNC} + \beta_{7SNS} + \beta_{5RTPE} + \beta_{2GDR} + \beta_{8AGST} + e$$

$$PRS = 6.541 + -.940 + .446 + -.322 + -.275 + -.212 + .81488$$

V. FINAL ANALYSIS

Table 8 : Showing the Summary of Best-Fit Models and the Excluded Variables

| OPPORTUNITIES OF E-LEARNING | | |
|-----------------------------|--------------------|---|
| 1 | Hypothesized Model | $OPR = a + \beta_{1CNC} + \beta_{2GDR} + \beta_{3ICTQ} + \beta_{4PPR} + \beta_{5RTPE} + \beta_{6CTY} + \beta_{7SNS} + \beta_{8AGST} + e$ |
| 2 | Best Fit | $OPR = a + \beta_{1CNC} + \beta_{5RTPE} + \beta_{6CTY} + \beta_{7SNS} + e$ $OPR = 5.820 + -.750 + -.364 + .216 + .228 + .71002$ |
| 3 | Excluded Variables | ICTQ, PPR, GDR & AGIST |
| PROSPECTS OF E-LEARNING | | |
| 1 | Hypothesized Model | $PRS = a + \beta_{1CNC} + \beta_{2GDR} + \beta_{3ICTQ} + \beta_{4PPR} + \beta_{5RTPE} + \beta_{6CTY} + \beta_{7SNS} + \beta_{8AGST} + e$ |
| 2 | Best Fit | $PRS = a + \beta_{1CNC} + \beta_{7SNS} + \beta_{5RTPE} + \beta_{2GDR} + \beta_{8AGST} + e$ $PRS = 6.541 + -.940 + .446 + -.322 + -.275 + -.212 + .81488$ |
| 3 | Excluded Variables | CTY, ICTQ & PPR |

Table 9 : Analysis of the Role played by Demographics

| | Factors | Reg-1 (OPR) | Reg-2 (PRS) | Role |
|---|---------|-------------|-------------|------|
| 1 | CNC | √ | √ | 2 |
| 2 | SNS | √ | √ | 2 |
| 3 | ICTQ | - | - | 0 |
| 4 | RTPE | √ | √ | 2 |
| 5 | GDR | - | √ | 1 |
| 6 | PPR | - | - | 0 |
| 7 | CTY | √ | - | 1 |
| 8 | AGIST | - | √ | 1 |

In table 9 following findings emerge:

1. CNC, SNS & RTPE are the most significant factors which are playing roles in both the opportunities and prospects.
2. The respondents with 'formal and informal' ICT qualification and those from public and private HEIs view both the opportunities and prospects in a similar manner.
3. Similar opportunities are expressed by both the males and females but they are different about the prospects of eLearning.
4. There is difference of opportunities in big and small cities showing the difference of resources available in both the cities.
5. Likewise, respondents from older institutes expect different prospects than those from new institutions.

VI. CONCLUSIONS

Despite the researchers' conviction that eLearning has the potential to create current opportunities and thereby future prospects, it is not difficult to express several counterarguments against such overoptimistic conclusions (Hvorecky, 2005). More specifically, eLearning is either a threat or opportunity for the HEIs of the world in general and developing countries in particular. But the benefits are determined by the ability of developers and users to tame the technologies and change their context simultaneously as to create a customized and localized match between the requirements of eLearning and objectives of a particular institute, community, or state. This requires research on the nature of technologies, native context and the relationships between the two at the moment and in future (Nawaz & Kundi, 2010a).

The management of the university and eLearning-developers must understand the native context which contains powerful demographic diversities which, if not identified, can be counterproductive in implementing the digital systems in higher education. As table 9 shows, the divides between computer/non-computer, science and non-science and respondent type (teachers, students and administrators) alarmingly different from each other. All the three factors are playing parallel role in determining both the opportunities and prospects of eLearning. These differences in users' opinion must be addressed

because they can either make or break the present and future of eLearning in Higher Education Institutions of Khyber Pakhtoonkhwa, Pakistan.

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