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**شناسایی راهکارهای توسعه فناوری اطلاعات و ارتباطات  
در دانشگاه‌های ایران**

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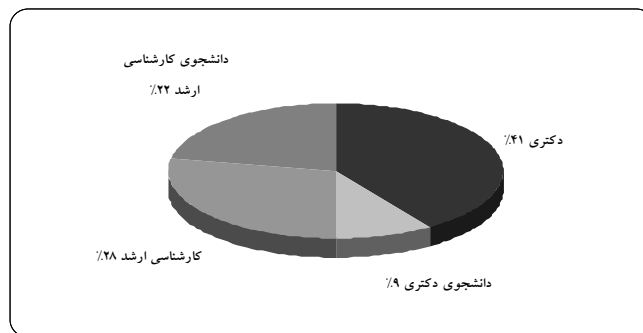
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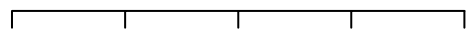
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$$\begin{cases} H_0 : \mu \geq 4 \\ H_1 : \mu < 4 \end{cases}$$

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$(\alpha = / )$

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:(H<sub>0</sub>)

:(H<sub>1</sub>)

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$$\begin{cases} H_0 : p \leq 0.5 \\ H_1 : p > 0.5 \end{cases}$$

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:(H<sub>0</sub>)

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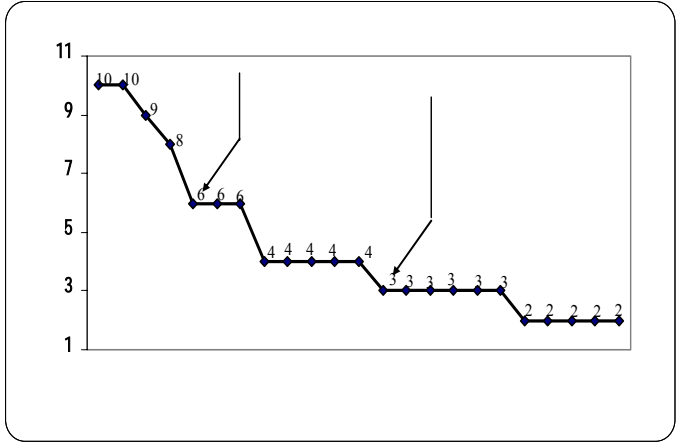
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H0	P-Value		H0	P-Value	t			
	/	/		/	/		ICT	R <sub>1</sub>
	/	/		/	/		ICT	R <sub>2</sub>
	/	/			/			R <sub>3</sub>
	/	/		/	/			R <sub>4</sub>
	/	/			/			R <sub>5</sub>
	/	/		/	/		...	R <sub>6</sub>
	/	/			/		ICT	R <sub>7</sub>
	/	/		/	/		ICT	R <sub>8</sub>
	/	/		/	/		ICT	R <sub>9</sub>
	/	/		/	/			R <sub>10</sub>
	/	/		/	/			R <sub>11</sub>
	/	/		/	/			R <sub>12</sub>

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H0	P-Value		H0	P-Value	t			
	/	/		/	/		ICT	R <sub>13</sub>
	/	/		/	/			R <sub>14</sub>
	/	/		/	/			R <sub>15</sub>
	/	/		/	/		ICT	R <sub>16</sub>
	/	/		/	/		ICT	R <sub>17</sub>
	/	/		/	/			R <sub>18</sub>
	/	/		/	/			R <sub>19</sub>
	/	/		/	/			R <sub>20</sub>
	/	/		/	/			R <sub>21</sub>
	/	/		/	/			R <sub>22</sub>
	/	/		/	/		ICT	R <sub>23</sub>

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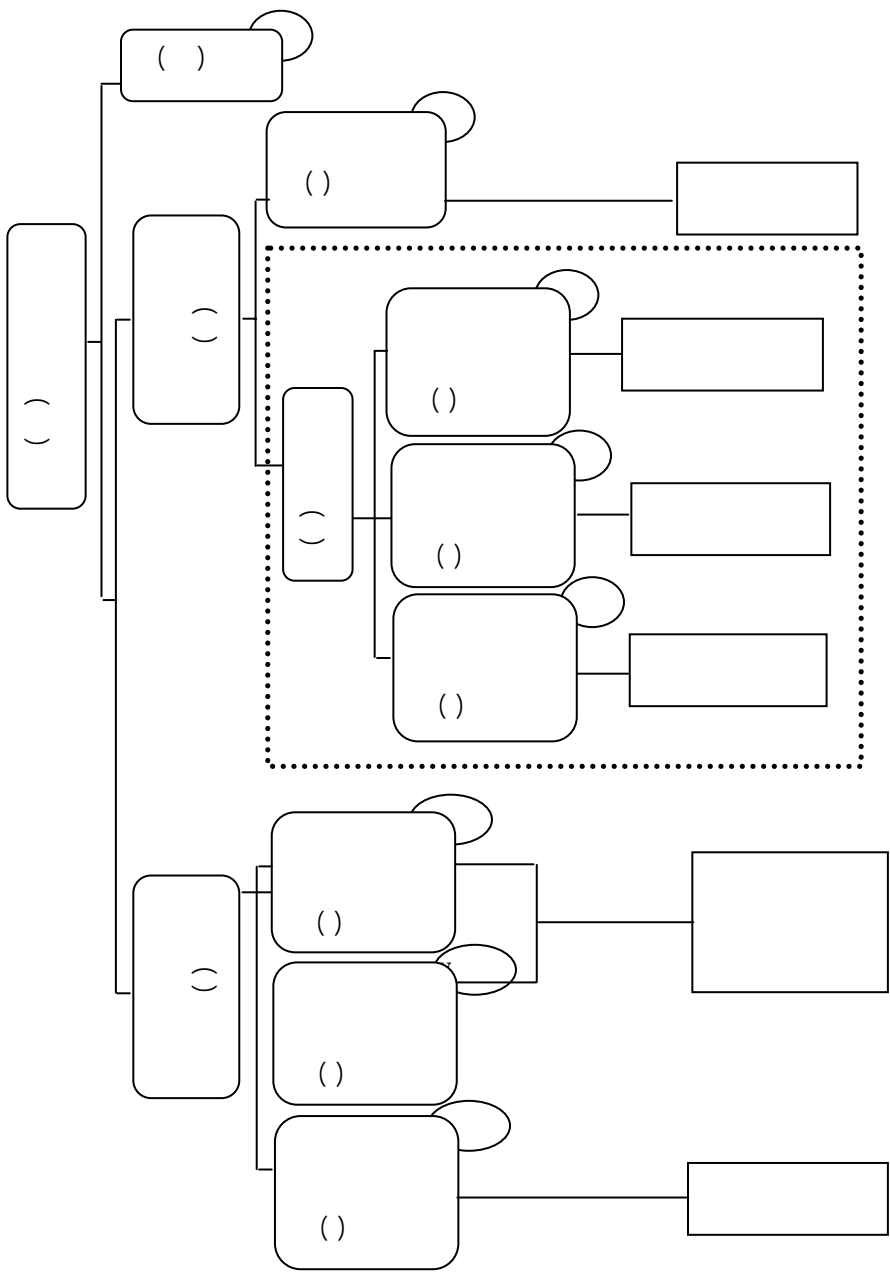
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$R_{23} \text{ } \text{ } R_4 \text{ } R_3 \text{ } R_1$	
$R_{20} \text{ } R_{14} \text{ } R_{12} \text{ } R_{11} \text{ } R_{10} \text{ } R_9 \text{ } R_7 \text{ } R_5$	
$R_{21} \text{ } R_{19} \text{ } R_{18} \text{ } R_{17} \text{ } R_{16} \text{ } R_{15} \text{ } R_{13} \text{ } R_8 \text{ } R_6 \text{ } R_2$	
$R_{22}$	

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(V) (IV) (III)

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R <sub>20</sub> ,R <sub>15</sub> ,R <sub>12</sub>	II
R <sub>23</sub> ,R <sub>4</sub> ,R <sub>3</sub> ,R <sub>1</sub>	III
R <sub>14</sub> ,R <sub>11</sub> ,R <sub>10</sub> ,R <sub>9</sub> ,R <sub>7</sub>	IV
R <sub>22</sub> ,R <sub>21</sub> ,R <sub>19</sub> ,R <sub>18</sub> ,R <sub>17</sub> ,R <sub>13</sub> ,R <sub>8</sub>	V
-	VI
R <sub>5</sub>	VII
R <sub>16</sub> ,R <sub>6</sub> ,R <sub>2</sub>	VIII

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2. Armenia Development Gateway Foundation. (2003). "E- Learning Assessment", Country Gateway Implementation Grant.
3. Australian Computer Society. (2002). "ICT Development in Australia: A Strategic Policy Review", Available at: <http://www.acs.org.au>.
4. Beroggi, G.; Täube, V. and Levy, M. (2003). "Socio-Economic Analysis and Macro-Modeling of Adapting to Information Technology in Europe", Swiss Federal Statistical Office.
5. Bhatia, S. (2001). "e- ASEAN Readiness Assessment", IBM Global Services.
6. Bui, T. X.; Sankaran, S. and Sebastian, I. M. (2003). "A framework for measuring national e-readiness" International Journal of Electronic Business, Vol. 1, No. 1, pp: 3-22.
7. Commission of the European Communities. (2001). "eLearning: Designing Tomorrow's Education", Available at: <http://europa.eu.int>.
8. Department of Information Technology. (2004). "India E-readiness Assessment Report", Available online at: <http://www.mit.gov.in>.
9. Economic and Social Commission for Western Asia. (2003). "Jordan's Information Society A Fast Growing Sector for a Transforming Nation", Available at: [www.intaj.net](http://www.intaj.net).
10. El- Gabaly, M. and Majidi, M. (2003). "ICT Penetration and Skills Gap Analysis", Partners for a Competitive Egypt.
11. Grant, G.; Louis, C.; Maheshwari, M.; Murty, D. N. and Yu, T. (2001). "Regional Initiative for Informatics Strategies, Sectoral ICT Strategies Planning Templates", Eric Sprott School of Business, Carleton University, Ottawa, Canada.

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12. Herman, J. (2000). "A rare moment in time" *Business Communications Review*, Vol. 30, No. 2, pp: 22- 3.
  13. Hilbert, M. and Katz, J. (2003). "Building an Information Society: a Latin American and Caribbean Perspective"; Economic Commission for Latin America and the Caribbean.
  14. Inglis, A.; Ling, P. and Joosten, V. (1999). "Delivering Digitally: Managing the Transition to the Knowledge Media", London: Kogan Page.
  15. International Telecommunication Union. (2002). "Digital Access Index", Available at: <http://www.itu.int>.
  16. Ireland Information Society Commission. (2002). "Building the Knowledge Society", Available at: [www.isc.ie](http://www.isc.ie).
  17. Johnson, M. A. and Johnson, D. M. (2005). "Integrated strategy of industrial product suppliers Working with B2B intermediaries" *Internet Research*, Vol. 15, No. 4, pp: 471-492.
  18. Lewis, D. and Goodison, R. (2004). "Enhancing learning with Information and Communication Technology (ICT) in Higher Education", University of Wolverhampton.
  19. Macintyre, G. and Ramnarine, D. (2003). "National ICT Strategy Development, e-Readiness Assessment Report, Examining Trinidad and Tobago's Current State of ICT Development", Ministry of Public Administration & Information.
  20. Ministry of Transportation and Communications, ICT development agency. (2004). "E-Bulgarian", Available at: [www.arcfund.net](http://www.arcfund.net).
  21. Monge, R. and Chacón, F. (2002). "Bridging The Digital Divide in Costa Rica, Access to and Use of Information and Communications Technologies (ICTs)", Costa Rican Advisory Commission on High Technology (CAATEC).
  22. National Academy of Sciences of Belarus. (2003). "ICT Infrastructure and E-Readiness Assessments in the Republic of Belarus, E- Readiness Assessment Report", Available at: <http://www.unece.org>.
  23. Organization for Economic Co- operation and Development (OECD). (2003). "Seizing the Benefits of ICT in a Digital Economy", Available at: <http://www.oecd.org>.

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24. Owen, D. E.; Sulaiman, I. F.; Fellow, S. B. and Mintz, S. P. (2001). "Indonesia- Information and Communications Technologies (ICT) Assessment", Partnership for Economic Growth (PEG) Project1.
  25. Salem, S. (2002). "Information Industry Literacy within the New Millennium: A Case Study of a Developing Country-Egypt", LIS-Faculty of Arts, Alexandria University.
  26. Ulukan, C. (2005). "Managerial Issues in Open and Distance Education Organizations in Transition: A Need for Systematic Approach" Turkish Online Journal of Distance Education-TOJDE, Vol. 6, No. 2, pp: 33-45.
  27. United Nations Development Program. (2001). "E-Readiness Assessment of Uzbekistan", Available at: [www.ndventures.com](http://www.ndventures.com).
  28. Walliman, N. and Baiche, B. (2001), Your research project, London: SAGE Publications.