

# FACTORS INFLUENCING INTERNET BANKING ADOPTION: AN EMPIRICAL STUDY\*

Kamal K. Gupta\*

## Abstract

*In the modern era banks can not afford to ignore the importance of Internet as a delivery channel. Although Internet banking offers several advantages, majority of banks' customers are not using Internet banking as reported in several studies. This paper attempts to identify the factors that influence the adoption of Internet banking and how these factors impact Internet banking usage. A survey of Internet banking users was conducted in the National Capital Region of India, at select locations.*

*Based on literature survey and focus group interviews, research model and hypotheses were developed. Exploratory factor analysis reveals five factors—perceived ease of use, perceived usefulness, security and privacy, information about Internet banking, and quality of Internet connection that influence adoption of Internet banking. Further, these factors were regressed on use of Internet banking. Impact of all the five factors was found significant. Information about Internet banking was found to be the most influential factor followed by perceived usefulness and security and privacy.*

## INTRODUCTION

The way financial services are delivered is changing as the Indian financial system is undergoing a period of substantial change. Internet banking is the most recent delivery channel introduced for financial services in India. Internet banking involves customers using the Internet to access their bank and account, to undertake banking transactions. Internet banking services can be classified into two levels—basic level involves setting up of a Web page by a bank to give information about its product and services and the advance level involves provision of facilities such as accessing accounts, funds transfer, and buying financial products or services online. The latter one is called transactional Internet banking and is the subject matter of this study. Banks can achieve

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\*Assistant Professor – Marketing Area, Department of Management, Raj Kumar Goel Institute of Technology, Ghaziabad, India.

notable cost savings, reduce their branch networks and downsize the number of their service staff by offering Internet banking services. These benefits can contribute to maximizing profits.

According to Internet & Mobile Association of India's report on online banking, there are 38.5 million Internet users in India and the number is set to cross 100 million by 2007-08. Based on limited banking resources, IAMAI has estimated 4.6 million Indian Internet users are banking online. Banks, certainly, can not ignore such a huge business opportunity. Despite its several advantages, most of bank customers, even today, are not using Internet channel for banking transactions. Therefore, it is important for banking professionals to understand and analyse the factors which influence adoption of Internet banking services.

In this paper, an attempt has been made to identify the factors that influence Internet banking adoption and their impact on Internet banking usage. Findings of this study should be useful for banking professionals dealing with Internet banking services in formulating marketing strategies. They can effectively encourage their customers to adopt this new delivery channel so as to bring down operational costs and yet provide a more convenient and satisfying banking experience.

Section 2 of the paper deals with the literature survey, development of hypotheses and research model. Research methodology (the sample, measurement of constructs and the survey instrument) is discussed in Section 3. Results of data analysis (demographic profile, factor analysis, regression analysis and correlation analysis) are discussed in Section 4, followed by discussion and theoretical implications in Section 5. The conclusion is presented in Section 6.

## **LITERATURE SURVEY AND DEVELOPMENT OF HYPOTHESES**

Internet banking acceptance has generated a great deal of research in the past (Sathye, 1999; Waite and Harrison, 2002; Bradley and Stewart, 2003; Gerrard and Cunningham, 2003; Mukherjee and Nath, 2003; Wang et al., 2003; Eriksson et al., 2005; Pikkarainen et al., 2006;). There are two main reasons underlying Internet banking popularity. First, it is the cheapest delivery channel for banking products (Robinson, 2000; Giglio, 2002). Second, banking transacting through Internet requires less time and effort in comparison to physical branch banking (Karjaluo et al., 2003). These advantages of time and cost savings and freedom to bank from any where in the world and at any

time have been reported as the main reasons for Internet banking acceptance (Polatoglu and Ekin, 2001; Black et al., 2002; Howcroft et al., 2002).

Technology acceptance model (TAM) is a widely accepted model in studying information system acceptance (Davis et al., 1989; Mathieson, 1991; Davis and Venkatesh, 1996; Gefen and Straub, 2000; Al-Gahtani, 2001) and it better explains the attitude toward using an information system than that of other models (Mathieson, 1991). TAM posits that behavioral intention determines actual information system use and behavioral intention is determined by both attitude and perceived usefulness. Both perceived usefulness and perceived ease of use have an effect on behavioral intention. Perceived ease of use also affects perceived usefulness. TAM has been tested in many studies (Davis, 1989; Davis et al., 1989; Mathieson, 1991; Adams et al., 1992; Davis, 1993; Segars and Grover, 1993; Taylor and Todd, 1995) and has been found consistent in explaining a significant amount of the variance in behavioural intentions and system use.

Perceived ease of use refers to the degree to which a person believes that using a particular system would be free of effort. A significant number of studies suggested perceived ease of use influences intention to use both directly or indirectly via its impact on perceived usefulness (Agarwal and Prasad, 1997; Davis et al., 1989; Venkatesh, 1999; Venkatesh and Davis, 2000). Cooper (1997) found that ease of use was one of the three important characteristics from the customer's perspective for adoption of innovative service. Consumers' perceptions and understanding of innovative technology is found to be an important element in shaping its acceptance (Rogers, 1962; Scarbrough and Corbett, 1992). Perceived ease of use affects the consumer acceptance of system use through its impact on perceived usefulness and attitude toward using the Internet (Davis et al., 1989). Chau (1996) found that perceived ease of use affects usefulness, attitude, intention and actual use. This leads to the following hypothesis:

**H1: Perceived ease of use has a positive effect on consumer acceptance of Internet banking.**

Perceived usefulness is the degree to which an individual believes that using a particular system would enhance his or her performance (Davis, 1989). A significant number of studies have shown that perceived usefulness is an important antecedent to behavioural intention to adopt technology (Davis et al., 1989; Venkatesh, 1999; Venkatesh and Davis, 2000). Barczak et al. (1997) reported that the perceived usefulness of something is its ability to provide a

means-end relationship and thus, provides a reason-to-use. Davis (1989), in his investigation, found the relationship between perceived usefulness and usage was stronger and more consistent than other variables reported in prior studies. According to Fishbein & Azjen (1975), expectancy theory is the basis of perceived usefulness and is concerned with an individual's belief in the decision making process. Individuals evaluate the consequences of their behavior in terms of perceived usefulness and base their choice of behavior on the desirability of the usefulness (Chau, 1996). Perceived usefulness has been found to be the most important factor affecting user acceptance in many studies (Szajna, 1994; Igarria et al., 1997; Sun, 2003). This discussion leads to the following hypothesis:

**H2: Perceived usefulness has a positive effect on consumer acceptance of Internet banking.**

According to Moon and Kim (2001) factors affecting the acceptance of a new information system are likely to vary with the technology, target users, and context (Moon and Kim, 2001). Therefore, besides perceived ease of use and usefulness factors identified in the original TAM, other relevant factors will also be investigated.

According to Minjoon and Shaohan (2001), customers appear to be much more apprehensive with the security of the internet banking than they are with that of traditional banking. Security refers to the reliability of internet banking and an overall belief on the part of the user that banking transactions can be completed confidentially and safely (Maenpaa, 2006). The significance of security and privacy to the acceptance of online banking has been found in many banking studies (Roboff and Charles, 1998; Westin and Maurici, 1998; Cranor et al., 1999; Sathye, 1999; Hamlet and Strube, 2000; Tan and Teo, 2000; Polatoglu and Ekin, 2001; Black et al., 2002; Bradley and Stewart, 2002; Giglio, 2002; Howcroft et al., 2002, Page and Luding, 2003). Polatoglu and Ekin (2001) proposed three dimensions of security– reliability, safety, and privacy. In quite a few studies, consumers' concerns about security and privacy have been emphasized as being the most important obstacle to the adoption and use of Internet banking services (Sathye, 1999; Daniel, 1999; Cox and Dale, 2001; Howcroft et al., 2002). This leads to the following hypothesis:

**H3: Security and privacy have a positive effect on consumer acceptance of Internet banking.**

The adoption or rejection of an innovation begins when the consumer

becomes aware of the product (Rogers and Shoemaker, 1971). Sathye (1999) found that the lack of awareness about Internet banking and its benefits contribute to the non-adoption of electronic banking. Information about Internet Banking refers to the consumers' awareness of Internet banking services on offer in the marketplace, benefits associated with Internet banking, and their knowledge of how to use Internet banking (Gan et al., 2006). The Internet banking literature supports that information has an impact on consumers' adoption of Internet banking (Sathye, 1999; Polatoglu and Ekin, 2001). Therefore, it becomes necessary that the banks make their existing (those who are not using Internet channel) and potential consumers aware about the availability and value proposition of their Internet banking services (Sathye, 1999). Guiltinan and Donnelly (1983), identify information about the benefits of using a product/service as an essential service/product promotion strategy in bank marketing context. This discussion leads to the following hypothesis:

**H4: Information about Internet banking has a positive effect on consumer acceptance of Internet banking.**

Internet banking services can only be availed by those customers who have access to Internet. Pikkarainen et al. (2006) investigated the quality of Internet connection construct in their study on consumer acceptance of online banking in Finland. They found that speed and reliability of Internet connections in Finland was quite common and therefore, is not important. However, concern regarding the speed and reliability of the Internet connection was raised in focus group interviews conducted for this study and might be relevant in Indian context. This leads to the following hypothesis:

**H5: Quality of Internet connection has a positive effect on consumer acceptance of Internet banking.**

## **RESEARCH MODEL**

The proposed model (Figure 1) comprises four widely researched and validated factors—perceived usefulness, perceived ease of use, security and privacy, and knowledge of Internet banking that influence Internet banking adoption (Davis et al., 1989; Chau, 1996; Wang et al., 2003; Maenpaa, 2006; Ndubisi and Sinti, 2006; Pikkarainen et al., 2006). (Davis et al., 1989; Davis, 1993; Al-Gahtani, 2001). Focus group interviews with the four banking professionals and ten Internet banking customers also endorsed these factors and therefore, included in the proposed research model.

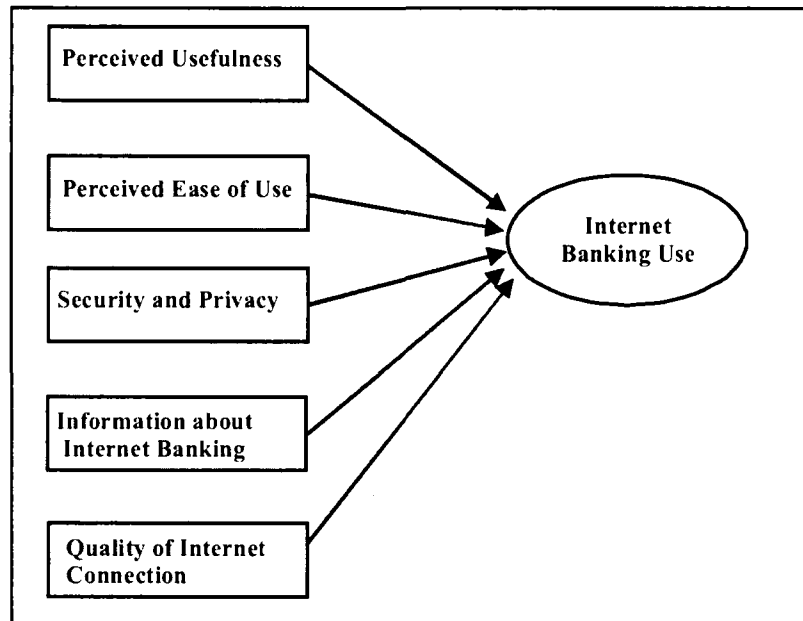


Figure 1 : The Research Model

## RESEARCH METHODOLOGY

### Sample

Non-probability convenience sampling method was used to select the sample. The survey was conducted in the national capital Delhi and adjoining four satellite towns—Noida, Gurgaon, Faridabad and Ghaziabad. Prospective respondents with previous Internet banking experience were approached in the shopping malls, supermarkets, and cyber cafes. Out of a total of 600 questionnaires distributed, only 572 useable questionnaires were received.

### Measurement of the Constructs

The items included in a scale must represent the concept about which generalizations are to be made in order to ensure its content validity (Bohmstedt, 1970). Therefore, scale items for this study were mainly adapted from prior studies to ensure content validity (Davis et al., 1989; Chau, 1996; Wang et al., 2003; Maenpaa, 2006; Ndubisi and Sinti, 2006; Pikkarainen et al., 2006).

Five constructs of consumer acceptance of Internet banking—perceived ease of use, perceived usefulness, security and privacy, information about

Internet banking, and quality of Internet connection were operationalised using adapted/modified items from previous studies (Davis et al., 1989; Chau, 1996; Wang et al., 2003; Maenpaa, 2006; Ndubisi and Sinti, 2006; Pikkarainen et al., 2006). The use of an information system has been found acting as an indicator of its user acceptance in many studies (Davis et al., 1989; Davis, 1993; Al-Gahtani, 2001; Legris et al., 2003; Pikkarainen et al., 2006). Therefore, use of internet banking services was chosen as the dependent variable in the model. The frequency of use has been found to capture the consumer's use of a technology in the technology context (Lang and Colgate, 2003; Ricard et al., 2001). Use of Internet banking, in this study, is operationalised through an item about their frequency of Internet banking use.

| Construct             | Item  |
|-----------------------|---|
| Perceived Ease of Use | <ul style="list-style-type: none"> <li>• My interaction with Internet banking services is clear and understandable</li> <li>• Learning to use Internet banking services is easy for me</li> <li>• I find Internet banking services to be flexible to interact with</li> <li>• It is easy for me to become skillful at using Internet banking services</li> <li>• I find Internet banking services easy to use</li> </ul>                              |
| Perceived Usefulness  | <ul style="list-style-type: none"> <li>• Using Internet banking services makes it easier for me to conduct my banking transactions</li> <li>• Using Internet banking services enables me to conduct my banking transactions more quickly</li> <li>• Using Internet banking services improves my performance in conducting my banking transactions</li> <li>• I find Internet banking services useful in conducting my banking transactions</li> </ul> |
| Security and Privacy  | <ul style="list-style-type: none"> <li>• Internet banking services is safe, information concerning Internet banking transactions will not fall into wrong hands</li> <li>• Using the Internet banking services is financially secure</li> </ul>   |

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Information concerning my Internet banking transactions will not be known to others.</li> <li>• I trust in the technology the Internet banking services are using.</li> </ul> |  |
| Information about Internet Banking   | <ul style="list-style-type: none"> <li>• I have generally received enough information about Internet banking services</li> <li>• I have received enough information about the benefits of using Internet banking services</li> </ul> |
| Quality of Internet Connection   | <ul style="list-style-type: none"> <li>• Internet connection is fast</li> <li>• Internet connection is reliable</li> </ul>   |

### The Survey Instrument

A survey research approach is used to measure the antecedents of the constructs in the proposed model: perceived ease of use, perceived usefulness, security and privacy, and knowledge of internet banking. Structured questionnaires were used to collect data from the internet banking customers. After verification of the proposed hypothesis from a focus group of six banking professionals, the survey instrument was pilot tested on twenty internet banking customers. Based on their feedback the questionnaire was modified and the revised questionnaire was again pre-tested among a set of twenty respondents and it worked well.

In the Part-I of final questionnaire, eighteen statements were used to measure the research model constructs (refer Appendix B). All the items were rated on a five point Likert scale (1-5) with anchors ranging from "strongly disagree" to "strongly agree" by the target respondents except the item use of Internet Banking services which was anchored by "almost never" to "almost always". Demographic questions (fixed-alternative) pertaining to the respondent's gender, age, education, occupation, and income were included in the second section. Besides these eighteen items, demographic questions (fixed-alternative) pertaining to the respondent's gender, age, education, occupation, and monthly gross income were also included in Part-II of the final questionnaire.



**RESULTS**

| Variable             | Categories          | No. of Respondents | Percent |
|----------------------|---------------------|--------------------|---------|
| Gender               | Male                | 432                | 75.5%   |
|                      | Female              | 140                | 24.5%   |
| Age                  | Below 20 years      | 22                 | 3.8%    |
|                      | 21-30 Years         | 242                | 42.3%   |
|                      | 31-40Years          | 176                | 30.8%   |
|                      | 41-50 years         | 77                 | 13.5%   |
|                      | Above 50 years      | 55                 | 9.6%    |
| Education Level      | Senior Secondary    | 38                 | 6.6%    |
|                      | Graduate            | 221                | 38.6%   |
|                      | Post Graduate       | 313                | 54.8%   |
| Occupation           | Service             | 271                | 47.4%   |
|                      | Business            | 209                | 36.5%   |
|                      | Student             | 60                 | 10.4%   |
|                      | Other               | 32                 | 5.7%    |
| Monthly Gross Income | Less than Rs. 10000 | 42                 | 7.3%    |
|                      | Rs. 10001-25000     | 138                | 24.2%   |
|                      | Rs. 25001-40000     | 188                | 32.8%   |
|                      | Above Rs. 40000     | 149                | 26.1%   |
|                      | Not Applicable      | 55                 | 9.6%    |

**Table 1 Demographic Profile of Respondents**

| Items/Factors   | Factor Loading |
|---|----------------|
| Factor 1 Perceived Ease of Use  |                |
| My interaction with Internet banking services is clear and understandable   | .887           |
| Learning to use Internet banking services is easy for me  | .750           |
| I find Internet banking services to be flexible to interact with  | .810           |
| It is easy for me to become skillful at using Internet banking services   | .731           |
| I find Internet banking services easy to use  | .884           |
| Factor 2 Security and Privacy   |                |
| SEC1-Internet banking services is safe, information concerning Internet banking transactions will not fall into wrong hands | .863           |
| SEC2-Using the Internet banking services is financially secure  | .778           |

|   |       |       |       |       |       |      |
|---|-------|-------|-------|-------|-------|------|
| SEC3-Information concerning my Internet banking transactions will not be known to others      |       |       |       |       |       | .874 |
| SEC4-I trust in the technology the Internet banking services are using                        |       |       |       |       |       | .848 |
| Factor 3 Perceived Usefulness   |       |       |       |       |       | .812 |
| Using Internet banking services makes it easier for me to conduct my banking transactions     |       |       |       |       |       | .876 |
| Using Internet banking services enables me to conduct my banking transactions more quickly    |       |       |       |       |       | .870 |
| Using Internet banking services improves my performance in conducting my banking transactions |       |       |       |       |       | .836 |
| I find Internet banking services useful in conducting my banking transactions                 |       |       |       |       |       |      |
| Factor 4 Information about Internet Banking   |       |       |       |       |       |      |
| I have generally received enough information about Internet banking services                  |       |       |       |       |       | .865 |
| I have received enough information about the benefits of using Internet banking services      |       |       |       |       |       | .914 |
| Factor 5 Quality of Internet Connection   |       |       |       |       |       |      |
| The Internet Connection that I use is fast  |       |       |       |       |       | .905 |
| The Internet Connection that I use is reliable  |       |       |       |       |       | .894 |
| Eigen Values  | 3.420 | 3.069 | 2.938 | 1.858 | 1.641 |      |
| % Variance  | 20.12 | 18.05 | 17.28 | 10.93 | 9.65  |      |
| Cumulative Variance   | 20.12 | 38.17 | 55.45 | 66.38 | 76.03 |      |
| Cronbach's $\alpha$   | .884  | .880  | .874  | .840  | .773  |      |
| Overall Cronbach's $\alpha = .776$  |       |       |       |       |       |      |
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy = .713  |       |       |       |       |       |      |
| Bartlett's Test of Sphericity:<br>Approx. Chi-Square = 6340.764<br>df = 136<br>sig. = .000    |       |       |       |       |       |      |

**Table 2 Factors Influencing Adoption of Internet Banking, Cronbach's  $\alpha$ , KMO and Bartlett's test of Sphericity**

Results of both Kaiser-Meyer-Olkin (KMO) measure of sampling adequacy (0.713) and Bartlett's test of sphericity (.000) suggested that exploratory factor analysis was appropriate for the data collected. The Cronbach's alpha test measures the consistency of the scale. The closer the value of coefficient of reliability to 1.0, the more reliable is the scale (Cronbach, 1951). The generally agreed upon lower limit for Cronbach's alpha is 0.70, although it may decrease to 0.60 in exploratory research. Overall Cronbach's Alpha value is .776 and for individual factors ranged from .773 to .884 and therefore all the factors in the research model have adequate reliability. The practical significance criteria considers factor loadings  $\pm 0.50$  or greater are practically significant and each single factor should include at least two items (Hair et al., 2005). Our exploratory factor analysis meets this criteria as all of the factor loadings of the items in the research model were greater than 0.50 and number of items loaded on five factors extracted ranged from two to five.

Table 2 shows the results of factor analysis (SPSS output) of the seventeen variables. Exploratory factor analysis was performed to identify the key factors influencing the adoption of Internet banking. All the seventeen items fit into the factor model. Five factors—perceived ease of use, perceived usefulness, security and privacy, information about Internet Banking, and quality of Internet connection were extracted from the eighteen variables using Principal Component analysis and Varimax rotation with Kaiser Normalization. Factors having eigen values greater than 1 were chosen (Hair et al., 2005). All the five factors together explain 76.03% variance in the data. For descriptive statistics (mean and standard deviation) refer Appendix A.

Multiple regression analysis was used to assess the impact of factors influencing adoption of Internet banking (independent variables) on Internet banking use (dependent variable).

The score for each factor was arrived after averaging the individual scores of each item loaded on that factor.

Table 3 shows that the overall regression model is significant ( $F = 69.441$ ;  $p < .01$ ). The plot of residuals indicates that the data follow linearity and normality conditions without any homoscedasticity. Further, all the Variance Inflation Factor values are closer to 1.00 that indicates the absence of multi-collinearity.  $R^2$  for this model is .380 that means 38% of the variation in Internet banking use can be explained from the five factors—perceived ease of use, perceived usefulness, security and privacy, information about Internet Banking, and quality of Internet connection.

| Standardized Coefficients          | t      | Sig.   | Collinearity Statistics |             |
|------------------------------------|--------|--------|-------------------------|-------------|
| Beta                               |        |        | Tolerance               | VIF         |
| (Constant)                         |        |        | 2.23                    | 0.026       |
| Perceived ease of use              | 0.175* | 5.07   | .000                    | 0.917 1.091 |
| Perceived usefulness               | 0.255* | 7.685  | .000                    | 0.996 1.004 |
| Security and privacy               | 0.23*  | 6.512  | .000                    | 0.878 1.139 |
| Information about Internet banking | 0.321* | 9.272  | .000                    | 0.914 1.094 |
| Quality of Internet connection     | 0.194* | 5.83   | .000                    | 0.986 1.014 |
| $F_{\text{model}}$ (p-level)       | 69.441 | (.000) |                         |             |
| $R^2$                              | .380   |        |                         |             |
| $R^2$ adjusted                     | .375   |        |                         |             |

**Table 3 Regression Analysis**

\* Significant at the .01 level

Standardized Coefficients Beta column reveals that regression coefficients for all the five predictor variables i.e. five factors influencing Internet banking adoption are statistically significant. The relative importance of these five factors in predicting the Internet banking use can be compared using Beta coefficients. Information about Internet banking has the greatest impact on Internet banking use ( $\beta = 0.321$ ,  $p < 0.01$ ), followed by perceived usefulness ( $\beta = 0.255$ ,  $p < 0.01$ ), security and privacy ( $\beta = 0.230$ ,  $p < 0.01$ ), and quality of Internet connection ( $\beta = 0.194$ ,  $p < 0.01$ ). Perceived ease of use has the lowest impact on Internet banking use ( $\beta = 0.155$ ,  $p < 0.01$ ).

Table 4 shows the correlation between Internet banking usage and factors influencing Internet banking adoption. All the correlations are significant at  $p < .01$ .

Thus, the findings support H1, H2, H3, H4 and H5.

| Perceived Ease of Use             | Perceived Usefulness | Security and Privacy |        |        | Information about Internet Banking | Quality of Internet Connection |
|-----------------------------------|----------------------|----------------------|--------|--------|------------------------------------|--------------------------------|
| Frequency of Internet Banking Use | Pearson Correlation  | .291**               | .239** | .356** | .434**                             | .244**                         |
| Sig. (two-tailed)                 | .000                 | .000                 | .000   | .000   | .000                               | .000                           |

**Table 4 Correlation Analysis**

\*\* Correlation is significant at the .01 level (2-tailed)

## DISCUSSION AND THEORETICAL IMPLICATIONS

This study is first of its kind in the Indian context that provides insights into the factors that affect consumer adoption of Internet banking and also, helps in understanding the impact of these factors on the use of Internet banking. Information about Internet banking is the most influential factor affecting internet banking use. Pikkarainen et al. (2006) in their investigation have also found amount of information about Internet banking having the highest impact on its use among all the factors. Findings regarding perceived ease of use and perceived usefulness are in line with previous TAM related studies that support the impact of these two factors on the Internet banking use (Davis, 1989; Davis et al., 1989; Teo et al., 1999). However, from the impact point of view perceived usefulness is the second most influential factor, whereas, perceived ease of use is the least important one. Security and privacy has a significant positive impact on Internet banking use as supported in many banking related previous studies (Roboff and Charles, 1998; Sathye, 1999; Hamlet and Strube, 2000; Polatoglu and Ekin, 2001; Black et al., 2002; Giglio, 2002; Howcroft et al., 2002). Quality of Internet connection has also been found impacting the Internet banking use. This is contrary to a previous study conducted by Pikkarainen et al. (2006).

## CONCLUSION

Five factors—perceived ease of use, perceived usefulness, security and privacy, information about Internet banking, and quality of Internet connection, identified in this study have a significant impact on the use of Internet banking in the Indian context. Information about Internet banking is the most influential

factor, followed by perceived usefulness, and security and privacy. Banking professionals can make use of the findings of this study in designing effective marketing strategies and increasing user acceptance of Internet banking.

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## APPENDIX A

## Descriptive Statistics

| Scale Items  | Mean | Std. Deviation |
|--|------|----------------|
| My interaction with Internet banking services is clear and understandable  | 3.50 | 1.133          |
| Learning to use Internet banking services is easy for me   | 3.60 | 1.036          |
| I find Internet banking services to be flexible to interact with   | 3.45 | 1.035          |
| It is easy for me to become skillful at using Internet banking services  | 3.56 | 1.168          |
| I find Internet banking services easy to use   | 3.52 | 1.156          |
| 3.53   |      | 1.11           |
| Using Internet banking services makes it easier for me to conduct my banking transactions                              | 3.93 | 1.053          |
| Using Internet banking services enables me to conduct my banking transactions more quickly                             | 3.84 | 1.074          |
| Using Internet banking services improves my performance in conducting my banking transactions                          | 3.78 | 1.124          |
| I find Internet banking services useful in conducting my banking transactions  | 3.90 | 1.115          |
| 3.86   |      | 1.09           |
| Internet banking services is safe, information concerning Internet banking transactions will not fall into wrong hands | 3.61 | 1.013          |
| Using the Internet banking services is financially secure  | 3.57 | 1.074          |
| Information concerning my Internet banking transactions will not be known to others                                    | 3.62 | 1.175          |
| I trust in the technology the Internet banking services are using  | 3.65 | 1.008          |
| 3.61   |      | 1.07           |
| I have generally received enough information about Internet banking services   | 3.24 | 1.333          |
| I have received enough information about the benefits of using Internet banking services                               | 3.38 | 1.180          |
| 3.31   |      | 1.26           |
| The Internet Connection that I use is fast   | 3.44 | 1.171          |
| The Internet Connection that I use is reliable   | 3.33 | 1.217          |
| 3.39   |      | 1.19           |

**APPENDIX B****Internet Banking Survey**

Complete this form only if you use or have used Internet Banking Services

Thank you for your time. Your response is anonymous and will be treated in confidence.

**Part-I**

Please indicate the extent to which you agree with each of the following statements. Circle a number from 1 to 5 that best represents your level of agreement with the statement, where 1 = "strongly disagree" and 5 = "strongly agree":

|  |           |
|--|-----------|
| 1. My interaction with Internet banking services is clear and understandable   | 1 2 3 4 5 |
| 2. Learning to use Internet banking services is easy for me  | 1 2 3 4 5 |
| 3. I find Internet banking services to be flexible to interact with  | 1 2 3 4 5 |
| 4. It is easy for me to become skillful at using Internet banking services   | 1 2 3 4 5 |
| 5. I find Internet banking services easy to use  | 1 2 3 4 5 |
| 6. Using Internet banking services makes it easier for me to conduct my banking transactions                               | 1 2 3 4 5 |
| 7. Using Internet banking services enables me to conduct my banking transactions more quickly                              | 1 2 3 4 5 |
| 8. Using Internet banking services improves my performance in conducting my banking transactions                           | 1 2 3 4 5 |
| 9. I find Internet banking services useful in conducting my banking transactions   | 1 2 3 4 5 |
| 10. Internet banking services is safe, information concerning Internet banking transactions will not fall into wrong hands | 1 2 3 4 5 |

|  |           |
|--|-----------|
| 11. Using the Internet banking services is financially secure                                | 1 2 3 4 5 |
| 12. Information concerning my Internet banking transactions will not be known to others      | 1 2 3 4 5 |
| 13. I trust in the technology the Internet banking services are using                        | 1 2 3 4 5 |
| 14. I have generally received enough information about Internet banking services             | 1 2 3 4 5 |
| 15. I have received enough information about the benefits of using Internet banking services | 1 2 3 4 5 |
| 16. Internet connection that I use is fast   | 1 2 3 4 5 |
| 17. Internet connection that I use is reliable   | 1 2 3 4 5 |

#### Part-II

1. Your Gender is
  - Male ( )
  - Female ( )
2. Your Age is Below
  - 20 years ( )
  - 21-30 Years ( )
  - 31-40Years ( )
  - 41-50 years ( )
  - Above 50 years ( )
3. Your Education Level is Senior
  - Secondary ( )
  - Graduate ( )
  - Post Graduate ( )
4. Your Occupation is
  - Service ( )
  - Business ( )
  - Student ( )
  - Other ( )

5. Your Monthly Gross Income is Less than
- Rs. 10000 ( )
  - Rs. 10001-25000 ( )
  - Rs. 25001-40000 ( )
  - Above Rs. 40000 ( )
  - Not Applicable ( )