AN ANALYTICAL STUDY ON ACCEPTANCE AND ADOPTION OF DIGITAL BANKING SERVICES IN SERVICE QUALITY DIMENSION

Thesis submitted to the Bharathiar University in partial fulfillment of the requirements for the award of the Degree of

DOCTOR OF PHILOSOPHY IN COMMERCE

Submitted by

K. PRINCY

Under the Guidance of

Dr. (Mrs.) M. RAJARAJESWARI, M.Com., M.Phil., MBA., MCA., NET., SET., Ph.D.

Assistant Professor

Department of Commerce

PSGR Krishnammal College for Women

Coimbatore



PSGR KRISHNAMMAL COLLEGE FOR WOMEN

College of Excellence

An Autonomous College, Affiliated to Bharathiar University

Re-accredited with 'A++' Grade by NAAC, nirf 2023 - 4th Rank

An ISO 9001:2015 Certified Institution

Coimbatore – 641 004

Tamilnadu, India

JULY 2023

Certificate

CERTIFICATE

This is to certify that the thesis, entitled "AN ANALYTICAL STUDY ON ACCEPTANCE AND ADOPTION OF DIGITAL BANKING SERVICES IN SERVICE QUALITY DIMENSION" submitted to Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of DOCTOR OF PHILOSOPHY IN COMMERCE is a record of original research work done by K. PRINCY during the period 2018 - 2023 of her research in the Department of Commerce at PSGR Krishnammal College for Women, under my supervision and guidance and the thesis has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title of any candidate of any University.

Date: 21/07/2023

Place: Combatore

Signature of the Guide

Dr. (Mrs.) M. RAJARAJESWARI M.Com., M.Phil., MBA.,MCA.,NET.,SET.,Ph.D Assistant Professor Department of Commerce PSGR Krishanammal College for Women Peelamedu, Coimbatore - 641 004.

Countersigned

Head of the Department

Dr. (Mrs) G.KAVITHÅ, M.Com.,M.Fhil.,PGDCA.,Ph.D Assistant Professor and Head Department of Commerce PSGR Krishnammal College for Women Peelamedu, Coimbatore - 641 004. Principal

Dr.P. MEENA, M.Sc.,M,Phil.,Ph.D.
PRINCIPAL
PSGR KRISHNAMMAL COLLEGE FOR WOMEN
PEELAMEDU, COIMBATORE - 641 004.

Declaration

DECLARATION

I, K. PRINCY, hereby declare that the thesis, "AN ANALYTICAL STUDY ON ACCEPTANCE AND ADOPTION OF DIGITAL BANKING SERVICES IN SERVICE QUALITY DIMENSION", submitted to Bharathiar University, in partial fulfilment of the requirements for the award of the Degree of DOCTOR OF PHILOSOPHY IN COMMERCE is a record of original and independent research work done by me during 2018 - 2023 under the Supervision and Guidance of Dr. (Mrs.) M. RAJARAJESWARI, M.Com., M.Phil., MBA., MCA., NET., SET., Ph.D., Assistant Professor, Department of Commerce, PSGR Krishnammal College for Women, and the thesis has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate in any University.

Date: 21/07/2023
Place: Coembatore

Signature of the Candidate

Certificate of Genuineness of the Publication

CERTIFICATE OF GENUINENESS OF THE PUBLICATION

This is to certify that the Ph.D. candidate K. PRINCY working under my supervision has published tree research article in the refereed journal named

- 1. Our Heritage Journal, (UGC Approved) ISSN 0474 9030, Vol. 68, Issue 30 year of publication February 2020, Page Nos. 3468 3472.
- 2. Journal of Emerging Technologies and Innovative Research (www.jetir.org) ISSN UGC Approved (Journal No: 63975) & 7.95 Impact Factor, Vol. 8, Issue 6, year of publication June 2021, Page Nos. d900 d906.
- Journal of Oriental Institute, M.S. University of Baroda, (UGC Approved)
 ISSN: 0030 5324, Vol. 71, Issue 01, No. 07, year of publication
 January March 2022, Page Nos. 31 36.

The contents of the publication incorporate part of the results presented in her thesis.

Countersigned

Signature of the Guide

Dr. (Mrs.) M. RAJARAJESWARI M.Com., M.Phil., MBA.,MCA.,NET.,SET.,Ph.D Assistant Professor Department of Commerce PSGR Krishanammal College for Women Peelamedu, Coimbatore - 641 004.

Head of the Department

Dr. (Mrs) G.KAVITHA, M.Com.,M.Phil.,PGDCA.,Ph.D Assistant Professor and Head Department of Commerce PSGR Krishnammal College for Women Peelamedu, Coimbatore - 641 004. Principal

Dr.P. MEENA, M.Sc.,M,Phil.,Ph.D.
PRINCIPAL
PSGR KRISHNAMMAL COLLEGE FOR WOMEN
PEELAMEDU, COIMBATORE - 641 004.





பாரதியார் பல்கலைக்கழகம்

BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA

State University | Re-Accredited with "A" Grade by NAAC | Ranked 15th among Indian Universities by MHRD-NIRF

123	CERTIFICATE OF	PLAGIARISM CHECK
1	Name of the Research Scholar	PRINCY.K
2	Course of study	Ph.D M.Phil., / Ph.D.,
3	Title of the Thesis / Dissertation	AN ANALYTICAL STUDY ON ACCEPTANCE AND ADOPTION OF DICHTAL BANKING SERVICES IN SERVICE QUALITY DIMENSION
4	Name of the Supervisor	Dr. M. RAJARAJESWARI
5	Department / Institution/ Research Centre	DEPARTMENT OF COMMERCE PSGR KRISHNAMMAL COLLEGE FOR WOMEN, COIMBATORE
6	% of Similarity of content Identified	04 %
7	Acceptable Maximum Limit	10 %
8	Software Used	URKUND
9	Date of verification	18 /01/2023

Report on plagiarism check, items with % of similarity is attached

Signature of the Supervisor Dr. (Mrs.) M. BAJARAJESWARI M.Com., M.Phil., MBA., MCA., NET., SET., Ph.D Assistant Professor

Department of Commerce

PSGR Krishanammal College for Women Peelamedu, Colmbatore - 641 004.

Signature of the Researcher

Head of the Department

Dr. (Mrs) G.K. (Seath) A, M.Com., M. Phil., PGDCA., Ph.D. Assistant Professor and Head Department of Commerce

PSGR Krishnammal College for Women Peelamedu, Coimbatore - 641 004

University Librarian (BU)

Universi@ Librarian Arignar Anna Central Library Bharathlar University. Coimbatore - 641 046.

Director i/c Center for Research & Evaluation (BU)

(Seal)

Document Information

Analyzed document

Princy. K.pdf (D172197713)

Submitted

7/18/2023 12:08:00 PM

Submitted by

Submitter email

buaacl.urkund@gmail.com

Similarity

4%

Analysis address

bhauni.urkund.buaacl.bhauni@analysis.urkund.com

Sources included in the report

SA	T.Hemalatha.pdf Document T.Hemalatha.pdf (D141068754)	88	5
SA	REFAT FAROOQ, Correction FILE Full Thesis.pdf Document REFAT FAROOQ, Correction FILE Full Thesis.pdf (D29759041)		2
SA	ANOOP K.K -CUSTOMER SATISFACTION TOWARDS INTERNET BANKING SERVICES WITH SPECIAL REFERENCE TO SELECT COMMERCIAL BANKS IN KERALA.docx Document ANOOP K.K -CUSTOMER SATISFACTION TOWARDS INTERNET BANKING SERVICES WITH SPECIAL REFERENCE TO SELECT COMMERCIAL BANKS IN KERALA.docx (D23370390)	88	7
SA	B_Senthil_Commerce.pdf Document B_Senthil_Commerce.pdf (D32367545)	88	11
W	URL: http://www.issr-journals.org/links/papers.php?journal=ijisr&application=pdf&article=IJISR-16-060-02 Fetched: 1/19/2022 10:15:57 AM		1
SA	CP Final Project Maheet.pdf Document CP Final Project Maheet.pdf (D141465507)	88	1
SA	AMARPREET_SINGH_THESIS_DMS_BTL.docx Document AMARPREET_SINGH_THESIS_DMS_BTL.docx (D167415647)	88	2
SA	Bharathiar University, Coimbatore / Jose K Puthur.docx Document Jose K Puthur.docx (D38550196) Submitted by: bulib_librarian@yahoo.co.in Receiver: bulib_librarian.bhauni@analysis.urkund.com	88	2
W	URL: https://www.iujharkhand.edu.in/assets/pdf/July-26-Thesis-BS-Jayachnadra.pdf Fetched: 10/31/2022 7:43:09 PM	88	3
SA	Bharathiar University, Coimbatore / Ramesh Kumar. N.pdf Document Ramesh Kumar. N.pdf (D29825296) Submitted by: rspani1967@gmail.com Receiver: rspani1967.bhauni@analysis.urkund.com Arignar Anna Central Libra		10

Arignar Anna Central Library
Bharathiar University
Coimbatore - 641 046



ACKNOWLEDGEMENT

First and foremost, I thank the **Almighty** for his immense blessings and his supremacy that work within me through thick and thin accomplish this research successfully. He has made my life more beautiful; I owe to his blessing.

I express my sincere thanks to **Mr. G. Rangasamy**, Managing Trustee, GRG Institutions and **Dr.** (**Mrs.**) **R. Nandini**, Chairperson, PSGR Krishnammal College for Women, Coimbatore, for providing me an opportunity to pursue my research in this institution.

I am grateful to **Dr.** (**Mrs.**) **N.** Yesodha **Devi, M.Com., Ph.D.,** Secretary, PSGR Krishnammal College for Women, Coimbatore, for giving me an opportunity to undertake my research work in this prestigious institution.

I place on record my sincere thanks to **Dr.** (**Mrs.**) **P. Meena,** Principal, PSGR Krishnammal College for Women, Coimbatore for giving me an opportunity to upgrade my knowledge and education in this esteemed institution.

With great reverence and high deference, I express my sense of obligation and heartfelt gratitude to my Research Supervisor and Guide **Dr.** (**Mrs.**) **M. Rajarajeswari, M.Com, M.Phil.., MBA., MCA., NET., SET., Ph.D.,** Assistant Professor, Department of Commerce, PSGR Krishnammal College for Women, Coimbatore for the continuous support of my Ph.D study and related research. I would like to thank her for valuable advice, support, inspiration and motivation showered on me during the tenure of my research.

I am grateful to thank **Dr. G. Kavitha, M.Com., M.Phil., PGDCA., Ph.D.,** Assistant Professor and Head, Department of Commerce, PSGR Krishnammal College for Women, Coimbatore for her continuous support and encouragement for completion of the research.

I am extremely indebted to the entire faculty members and research scholars, Department of Commerce.

I always express my sincere thanks to **Dr. M. Theivanayaki, MBA., M.Phil., Ph.D., NET**, for her technical guidance and support in applying statistical tools which enabled me to successfully complete this research and also for giving a long period of time to depend.

I express my gratitude to **Mr. G. Midhun Sundar, B.E.,** for his technical support in data collection which helped me in doing this research.

Words cannot express my feelings to gratitude of my father M. C. Krishnan, my mother C. Indira, my husband M. Shajeev, my sister K. Priya, my brother-in-law R. Sunil, my children Adhya Sunil, S. Viinay Aditya & S. Vismay Aditya and my friends S. Haripriya and C. Gayathri for their encouragement, moral support and sacrifice without which the work would not have been completed. Their love and blessings were a perpetual source of inspiration to me.

(K. PRINCY)

LIST OF TABLES

TABLE NO.	TITLE	PAGE NO.
1.1	Constructs and Variables used in the study	9
4.1	Gender of respondents	80
4.2	Age of respondents	81
4.3	Level of Education	83
4.4	Marital status of respondents	85
4.5	Distribution on the basis of profession	86
4.6	Income Level of the respondents	87
4.7	Internet usage of respondents	89
4.8	Technically advanced banks	90
4.9	Attributes of the Bank	92
4.10	Service facilities availed for maintain banking transactions	93
4.11	Mode of making payments	95
4.12	Comfort level of using Digital banking services	97
4.13	Frequency of usage of branch banking services	98
4.14	Frequency of usage of ATM	100
4.15	Frequency of usage of Digital banking	101
4.16	Frequency of usage of Tele Phone banking	103
4.17	Frequency of usage of Mobile banking	104
4.18	Various service quality dimensions	106
4.19	Demographic profile and Tangibility	109
4.20	Demographic profile and Reliability	112
4.21	Demographic profile and Responsiveness	114
4.22	Demographic profile and Assurance	115

TABLE NO.	TITLE	PAGE NO.
4.23	Demographic profile and Security	117
4.24	Demographic profile and Perceived Usefulness	119
4.25	Demographic profile and Perceived Ease of Use	121
4.26	Demographic profile and Customer Acceptance	123
4.27	Demographic profile and Intension to Adopt	125
5.1	Independent samples t test – Gender and Opinion towards Digital banking Services	127
5.2	Descriptive Statistics for Education and Preference to Digital banking facility	129
5.3	One way ANOVA - Education and Digital banking facility	132
5.4	Descriptive Statistics for profession and preference on Digital Banking services	134
5.5	One way ANOVA – Profession and preference on Digital Banking services	136
5.6	Correlation between Digital Banking Facilities	138
6.1	Independent samples t test – Gender and Issues and Challenges faced by customers while adopting Digital Banking Services	143
6.2	Descriptive Statistics for Education and Issues and Challenges faced by customers while adopting Digital Banking Services	145
6.3	One way ANOVA - Education and Issues and Challenges faced by customers while adopting Digital Banking Services	147
6.4	Descriptive Statistics for Profession and Issues and Challenges faced by customers while adopting Digital Banking Services	149
6.5	One way ANOVA - Profession and Issues and Challenges faced by customers while adopting Digital Banking Services	151
7.1	KMO and BARTLETT'S test	153
7.2	Communalities Factors of Security Measures Adopted By Customers While Using Digital Banking Services	154
7.3	Total Variance Explained	156

TABLE NO.	TITLE	PAGE NO.
7.4	Rotated Component Matrix Using Principal Component Analysis	157
8.1.1	Instrument Validation	163
8.1.2.1 (a)	Opinion on Factors under Tangibility	163
8.1.2.1 (b)	Reliability for construct Tangibility	164
8.1.2.2 (a)	Opinion on Factors under Reliability	165
8.1.2.2 (b)	Reliability for construct Reliability	165
8.1.2.3 (a)	Opinion on Factors under Responsiveness	166
8.1.2.3 (b)	Reliability for construct Responsiveness	167
8.1.2.4 (a)	Opinion on Factors under Assurance	167
8.1.2.4 (b)	Reliability for construct Assurance	168
8.1.2.5 (a)	Opinion on Factors under Security	169
8.1.2.5 (b)	Reliability for construct Security	169
8.1.2.6 (a)	Opinion on Factors under Perceived Usefulness	170
8.1.2.6 (b)	Reliability for construct Perceived Usefulness	171
8.1.2.7 (a)	Opinion on Factors under Perceived Ease of Use	172
8.1.2.7 (b)	Reliability for construct Perceived Ease of Use	173
8.2	Model Fit Indices	174
8.3	Path Coefficients	176
8.4	Intention to Adopt Digital Banking Services - Indirect Effects	177

LIST OF CHARTS

CHART NO.	TITLE	PAGE NO.
4.1	Gender of respondents	80
4.2	Age of respondents	82
4.3	Level of Education	84
4.4	Marital status of respondents	85
4.5	Distribution on the basis of profession	87
4.6	Income Level of the respondents	88
4.7	Internet usage of respondents	90
4.8	Technically advanced banks	91
4.9	Attributes of the Bank	93
4.10	Service facilities availed for maintain banking transactions	94
4.11	Mode of making payments	96
4.12	Comfort level of using Digital banking services	98
4.13	Frequency of usage of branch banking services	99
4.14	Frequency of usage of ATM	101
4.15	Frequency of usage of Digital banking	102
4.16	Frequency of usage of Tele Phone banking	104
4.17	Frequency of usage of Mobile banking	105