ACKNOWLEDGEMENT

With deep sense of gratitude I express my indebtedness to Dr. T.M. Vasudevan Nambisan, Reader and Research Guide in Mathematics, Kannur University Research Centre, University Central Library, Kannur, under whose able guidance and painstaking supervision, I had the privilege of carrying out my research work. I am thankful to him for his constant encouragement and discussions throughout the course of my research work.

I owe to His Holiness Swamiji Nirmalanandagiri Maharaj for his constant moral support, advice, blessings and encouragement in doing this research work, with out which this work would not have been to this end.

I am grateful to Sri. K. Narayanan, Principal, Payyanur College, Payyanur and the President, Board of management, Payyanur Educational Society, for giving me permission to undergo this course. I must thank Smt. T. M. Vasantha Kumari, Head of the Department of Mathematics, Payyanur College, Payyanur, for the kind cooperation and support.

I take this opportunity to thank my beloved teachers Prof. A. K. Sarada and Prof. K. C. Kunhi Parvathi, who were a source of inspiration for me throughout this study. I wish to express my sincere thanks to Dr. K. Jayakumar, Head of the Department of Statistics, University of Calicut, for his valuable suggestions and advice.

I can not forget my M.Phil guide Dr. S. Sampath Kumar, Retired Professor and Head of the Department of Mathematics, Mangalore University for his kind advice and blessings. I would also like to thank Dr. M. V. Durga Prasad, Department of Mathematics, National Institute of Technology, Surathkal for his constant encouragement.

I am really grateful to Dr. P. Balakrishnan, Reader & Head of the Department of Hindi, Payyanur College, Payyanur, for his constant interest and ample support in doing this work.

The help rendered by Miss. C. Saraswathi, Research Scholar in Physics, Indian Institute of Science, Bangalore, in literature reference is highly appreciated.
I wish to express my sincere thanks to the Librarian and other staff of the University Central Library, Kannur, for their whole hearted cooperation while doing this research work.

I would like to thank the Librarian, Central Library, Indian Institute of Science, Bangalore for providing me facilities to the reference at the Library. Also I wish to thank the Librarian, Central Library, University of Calicut and the Librarian, Central Library, Mangalore University for their kind cooperation while referring the Libraries.

I must not fail to acknowledge my thankfulness to my beloved wife Smt.Amritha Sreenivas and my daughter Kum.Anagha Sreenivas, who showed admirable patience and gave me moral support while doing this research work.


Finally I am grateful to all my colleagues and friends for their consistent cooperation. Sri.P.Prashanth, my research mate and my colleague Dr.P.R.Swaran are a few among them.

SREENIVAS.P.C