



**International University of Africa**  
**Faculty of Pure and Applied Science**



**Department of Mathematics and Computer Sciences**

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of M.sc. in Mathematics**

# **A Survey on Approximation Theory and Methods**

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# *Dedication*

*To those who love them*

## ***Acknowledgement***

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## **Abstract**

The need to approximate general functions by simple functions is important in practice. Simple functions are easy to compute and implement in bigger applications.

In this dissertation study of approximation theory together with numerical method is covered. Some algorithms are described and Matlab functions are written.

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