

**VARIABLE VISCOSITY ARTERIAL BLOOD FLOW: ITS NATURE
AND STABILITY**

**AN MSc RESEARCH PROPOSAL PRESENTED TO THE FACULTY OF
SCIENCES, HEALTH AND AGRICULTURE, UNIVERSITY OF LIMPOPO,
SOUTH AFRICA**

BY

MFUMADI KOMANE BOLDWIN



SUPERVISOR: PROFESSOR O.D. MAKINDE
APPLIED MATHEMATICS DEPARTMENT

**RECOMMENDATIONS REGARDING TITLE OF DISSERTATION/TITLE,
SUPERVISOR**

NAME OF STUDENT : Mfumadi Komane Boldwin
 [REDACTED]
 QUALIFICATIONS : B.Sc., B.Sc.(HONS)
 DISCIPLINE : Applied Mathematics
 SCHOOL : Computational & Mathematical Sciences
 PROPOSED TITLE : Variable viscosity arterial blood flow: its nature and stability

BRIEF OUTLINE OF THE STUDY:

In this M.Sc research project, the nature and stability of steady flow of blood in a large arterial investigated. Both analytical and numerical methods will be employed in order to tackle this problem. This work will provide a theoretical base for porous media flow control, hence preventing the transition to turbulence.

SUPERVISOR

Name : Prof. O.D. Makinde
 Qualifications : B.Sc. (HONS),M.Sc.(Ife- Nigeria) PhD(Bristol-UK)
 Present Post : Professor
 Institution : University of Limpopo, RSA

 Director of School Date DEAN Date

DECISION OF E.C.S:_____ Date:_____ REF:_____

DECISION OF SENATE:_____ Date:_____ REF:_____

REGISTRATION FOR MASTERS AND DOCTORS DEGREE

Contemplated degree: M.Sc
Faculty: Science and Agriculture
Field of Study: Applied Mathematics
Name: Mfumadi Komane Boldwin

Particulars regarding degrees already obtained

Name of Honours degree and University: B.Sc.(Hons),University of Limpopo
Duration of study: One(1) year
Subject in which degree was obtained: Applied Mathematics
Symbol or percentage obtained: 69%
Name of degree and University: B.Sc
Duration of study: Five(5) years (full time)
Subject in which degree was obtained: Applied Mathematics and Statistics and
Computer Sc.

Recommendation by Director of School

Accepted/Not accepted

Remarks:

Supervisor: Prof. O. D. Makinde

Signature Date

Recommendation by Dean

Accepted/Not Accepted

Remarks:

Signature Date