



# THE TECHNICAL UNIVERSITY OF KENYA

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NAME: DR GRACE WAMBUI GACHIGUA

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| Faculty:             | Applied Sciences and Technology                                |
| School:              | Mathematics and Actuarial Science                              |
| Department:          | Pure and Applied Mathematics                                   |
| Current Designation: | Senior Lecturer, INDUSTRIAL AND ENGINEERING MATHEMATICS (DIEM) |
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| Consultation Hours:  | 08.00AM-05.00PM, Mon-Fri                                       |



## EDUCATION

| LEVEL                        | QUALIFICATION NAME  | INSTITUTION                                                   | YEAR |
|------------------------------|---------------------|---------------------------------------------------------------|------|
| Doctor of Philosophy (PhD)   | APPLIED MATHEMATICS | JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY(Kenya) | 2013 |
| Masters of Science (M.Sc.)   | MATHEMATICS         | KENYATTA UNIVERSITY(Kenya)                                    | 2007 |
| Bachelor of Education (B.Ed) | SCIENCE             | KENYATTA UNIVERSITY(Kenya)                                    | 2003 |
| Diploma                      | SCIENCE EDUCATION   | KENYA SCIENCE TEACHERS COLLEGE(Kenya)                         | 1992 |

## WORK EXPERIENCE

| PERIOD                  | INSTITUTION                   | POSITION           |
|-------------------------|-------------------------------|--------------------|
| 14.05.2013 - 31.03.2014 | Technical University of Kenya | Assistant Lecturer |
| 31.03.2014 - *          | Technical University of Kenya | Lecturer           |

## SELECTED PUBLICATIONS

| TITLE                                                                                                                    | LINK TO PUBLICATION YEAR    |  |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------|--|
| Ring of invariants fr systems with linear Part N(3)                                                                      | <a href="#">View online</a> |  |
| Stability Analysis of a Brusselator Model                                                                                | <a href="#">View online</a> |  |
| Normal Forms for Systems with Linear Part N(3)                                                                           | <a href="#">View online</a> |  |
| A numerical Investigation of Turbulent Natural Convection in a 3D Enclosed Using Volume Finite Method and Staggered Grid | <a href="#">View online</a> |  |
| Boosting Invariants to Equivariants for a coupled Takens-Bogdanov Systems                                                | <a href="#">View online</a> |  |
| A numerical Investigation of Turbulent Natural Convection in a 3D Enclosed Using SST Model and Simplec Method            | <a href="#">View online</a> |  |
| Mathematical Model Governing the Predator-Prey Relationship in Lake Turkana (Kenya),                                     | <a href="#">View online</a> |  |