

## DEPARTMENT OF MATHEMATICS



**Name of Staff:** Ms Rose W. Gachogu

**Designation:** Lecturer

**Laikipia University:** School of Science and Applied Technology

**Email:** rgachogu@laikipia.ac.ke

### **Educational Background**

- Masters in Mathematics , Kenyatta University, Kenya, 2007
- BEd (Science), 2nd class upper division, Kenyatta University, Kenya, 1987

### **Brief Auto-biography of the Department**

Rose Gachogu, is currently on her Ph. D studies at Egerton University and has done some publications on algebraic structures. She is an active team player in the faculty, as witnessed by teaching and contribution in curriculum development and review. She is a member of OWSD-Kenya. Rose has also initiated motivational forums to improve performance in Mathematics at secondary school level, especially of girls.

She is an active member in community activities aimed at improving the welfare of women in the society.

### **Selected publications**

1. R. W. Gachogu, I. N. Kamuti, Ranks and Subdegrees of the Dihedral Groups  $D_n$  Acting on Unordered  $r$ -Element subsets. International Journal of Algebra , Vol. 8, 2014, no. 11, 537-545.
2. R. W. Gachogu, I. N. Kamuti, Properties of Suborbital Graphs of the Dihedral Group Acting on Unordered  $r$ -Element Subsets. International Journal of Algebra , Vol. 8, 2014, no. 12, 557-561.
3. R. W. Gachogu, I. N. Kamuti, M. N. Gichuki, Properties of Suborbits of the Dihedral Group  $D_n$  Acting on Ordered Subsets. Advances in Pure Mathematics , Vol. 7, No. 8, 2017, 375-382.

4. R. W. Gachogu, I. N. Kamuti, M. N. Gichuki, Transitivity, Rank and Suborbits of the Cyclic Group Acting On Unordered Subsets. International Journal of Advanced Scientific and Technical Research, issue 8 Vol. 1, 2018.

### **Research Interest**

Algebra ( Group Theory and Combinatorics ).