

## **CURRICULUM VITAE**

**A. (a) NAME:** Michael ENIOLUWAFE.

(Formerly: ALAWODE, Michael Adedapomola.)

(b) **Date of Birth:** April 27; 1959:

(c) **Department:** Mathematics.

(d) **Faculty:** Science.

**B. (a) First Academic Appointment :**

Assistant Lecturer, February 1; 1994:

(b) **Present Post (with date):** Senior Lecturer, October 1; 2008:

**C. University Education (with dates):**

(a) University of Benin (Undergraduate) - 1981 - 1985:

(b) University of Ibadan (M.Sc. Program) - 1988 - 1990:

(c) University of Ibadan (Ph.D. Program)) - 1994 - 1999:

**D. Academic Qualifications (with Dates and Granting Bodies):**

B.Sc. Mathematics, First Class Honours, University of Benin, February, 1986:

M.Sc. Pure Mathematics, University of Ibadan, April, 1990:

Ph.D. Mathematics, University of Ibadan, February, 1999:

**E. Professional Qualifications and Diplomas(with date):**

Nil.

**F. Scholarships, Fellowships and Prizes**

**(with date in respect of Undergraduate and Postgraduate Works Only)**

(i) Best Student in Faculty of Science, University of Benin, 1982 - 1985:

(ii) Awarded University Scholarship, 1982 - 1985:

(iii) Visiting Scientist, The Abdus Salam International Centre for Theoretical Physics (ICTP) Trieste, Italy, January 1991 - December 1993:

Fellowship in Support of Ph.D. Research Work.

## **G. Honours, Distinctions and Membership of Learned Societies:**

### **Honours**

(i) Assistant Hall Warden, Tedder Hall, University of Ibadan, June 1; 2007 to 2011.

### **Distinction**

(ii) Regular Research Associate, The Abdus Salam ICTP, Trieste, Italy, January 1; 2002 - December 31; 2007:

### **Membership of Learned Societies**

- (i) Member, Nigerian Mathematical Society
- (ii) Member, Nigerian Association of Mathematical Physics.

## **H. Details of Teaching Experience at University Level:**

### **(a) Post held**

- (i) Assistant Lecturer, Mathematics Department: February 1; 1994 - September 30; 1997:
- (ii) Lecturer Grade II, Mathematics Department, October 1; 1997 - September 30; 1999:
- (iii) Lecturer Grade I, Mathematics Department, October 1; 1999 - September 30; 2008:
- (iv) Senior Lecturer, Mathematics Department, October 1; 2008 to date.

### **(b) Courses taught so far:**

Undergraduate:. I have taught at all levels of undergraduate program as indicated below.

- (i) MAT 101 - Supplementary Mathematics
- (ii) MAT 141 –Analytic Geometry and Mechanics
- (iii) MAT 213 - Algebra for Non- Mathematics Majors
- (iv) MAT 242 – Vectorial Mechanics
- (v) MAT 212 - Linear Algebra
- (vi) MAT 211 - Abstract Algebra
- (vii) MAT 311 - Groups and Rings
- (viii) MAT 312 -Theory of Modules

- (ix) MAT 323 – Complex Analysis
- (x) MAT 401 - Advanced Algebra I
- (xi) MAT 402 - Advanced Algebra II
- (xii) MAT 407 - Complex Analysis
- (xiii) MAT 499 - Undergraduate Project Supervision

Postgraduate: Courses taught since 1999:

- (i) MAT 701 - Group Representation Theory
- (ii) MAT 708 - Commutative Algebra
- (iii) MAT 709 - Basic Algebra K-Theory
- (iv) MAT 710 - Homological Algebra
- (v) MAT 799 - Supervision of M.Sc. Project.

I have supervised twenty (20) M.Sc. Projects since 1999: I am currently supervising one (1) M.Sc. Project.

(vi) Supervision of M.Phil. / Ph.D. and Ph.D. Research Students

I am currently supervising one (1) M.Phil. Student.

- (vii) Supervision at M.Phil.. Level (Completed) one 1
- (viii) Supervision at Ph.D. Level (Completed) two 2
- (ix) On going Supervision at Ph.D. Level two 2

**I. Other duties carried out so far:**

- (i) Departmental Curriculum Officer (Undergraduate), 1994 – 1995.
- (ii) Member, Faculty of Science Curriculum Committee, 1997 – 1998.
- (iii) Departmental Examination Coordinator, 2000 – 2002; 2007 – 2012.
- (iv) Departmental Deputy Coordinator, Distance Learning Centre, University of Ibadan, 2007 – 2012.
- (v) Member, Departmental Finance Committee, 2000 – 2002; 2010 to date
- (vi) Senate Representative, Senior Staff Housing Committee, 2008 to 2015.
- (vii) Assistant Warden, Tedder Hall, June 2007 – 2011.
- (viii) Congregation Representative in Senate 2007 – 2011.
- (ix) Chairman, Inspection Sub-Committee, Senior Staff Housing Committee, 2009.
- (x) Departmental Postgraduate Coordinator, 2015 to date.
- (xi) Chairman, Implementation Finance Committee 2018 to date.
- (xii) Chairman, Organizing Committee Distinguished lecture by Professor A. O. Kuku, University of Ibadan.

## **J. RESEARCH**

### **Completed:**

- (a) On Units of Burnside Rings of Cyclic Groups.
- (b) On Units of Burnside Rings of Elementary Abelian 2-Groups.
- (c) On a connection between Units of Burnside Rings and the Exterior Algebra of Elementary Abelian 2-Groups.
- (d) On the number of Cyclic Quotients of some Abelian  $p$ -Groups.
- (e) On the precise order of Unit Group of Burnside Rings of some Finite Abelian Group.
- (f) On counting subgroups of finite non-metacyclic 2-groups having no elementary abelian subgroup of order 8.

### **In Progress:**

(a) It is desirable Classifying the  $p$ -Groups  $G$ ;  $p > 2$  containing an Abelian Self- Centralizer  $A$  of order  $p^3$ .

Obviously  $|N_G(A) : A| < p^3$  if  $A$  is Noncyclic, and  $|N_G(A) : A| < p^2$  if  $A$  is Cyclic. The case  $|N_G(A) : A| = p$  is of some interest.

(b) One way of possibly getting further general results are :

(i) Study the  $p$ -Groups  $G$  containing a Subgroup  $M$  of Maximal Class such that  $C_G(M) < M$  (if  $|M| > p^3$ ; then  $G$  is not necessarily of Maximal Class). The case  $p = 2$  is of special interest,

(ii) Study the Groups  $G$  of Normal Subgroups of Order  $p^{p+1}$  in the case when  $|A| = p$ ; in detail.

(iii) Consider the case  $p = 2$  in (ii):

### **Dissertations and Thesis:**

(a) ALAWODE, M.A. (1985) : On the Quadratic Reciprocity laws .  
**B.Sc. Project, Department of Mathematics, University of Benin.**

(b) ALAWODE, M.A. (1990) : Connections between Cyclic Homology and Algebraic K-Theory.  
**M.Sc. Dissertation, Department of Mathematics, University of Ibadan.**

(c) ALAWODE, M.A. (1999) : The Units of Burnside Rings of various Finite Groups.  
**Ph.D. Thesis, Department of Mathematics, University of Ibadan.**

## K. PUBLICATIONS

### (a) Books already published:

[1] EniOluwafe, M. (2008) Algebra for Non - Mathematics Majors,  
Ibadan Distance Learning Centre Series in Mathematics,  
 Publisher :Distance Learning Centre, University of Ibadan, 142 pages.  
 ISBN 978 - 021 - 356 - 2:

Percentage Contribution: 100 %

[2] EniOluwafe, M. (2009) Vectorial Mechanics,  
Ibadan Distance Learning Centre Series in Mathematics,  
 Publisher :Distance Learning Centre, University of Ibadan, 156 pages.  
 ISBN 978 - 021 - 422 - 4:

Percentage Contribution: 100 %

[3] EniOluwafe, M.(2013) Advanced Algebra I  
Ibadan Distance Learning Centre Series in Mathematics,  
 Publisher :Distance Learning Centre, University of Ibadan, 93 pages.

Percentage Contribution: 100 %

[4] EniOluwafe, M.(2014) Advanced Algebra II  
Ibadan Distance Learning Centre Series in Mathematics,  
 Publisher :Distance Learning Centre, University of Ibadan, 103 pages

Percentage Contribution: 100 %

### (b) Chapters in Books already published:

Nil.

### (c) Articles that have already appeared in Refereed Conference Proceedings:

[5] EniOluwafe, M. (2009) G-Theory of Group Rings for Groups of Elementary  
 Abelian p-Groups.  
Advances In Mathematics , Proceedings of a Memorial Conference in honour  
 of late Professor C.O.A. Sowunmi. Vol 1 225 - 228:  
 Publisher: University of Ibadan, Ibadan. Nigeria.

Percentage Contribution: 100 %

[6] EniOluwafe, M. (2015) Counting Subgroup Formula for the Groups Formed by Cartesian Product of the Generalized Quaternion Group With Cyclic Group of Order Two.

**Perspectives and Developments in Mathematics, Proceedings of Conference in honour of Professor S.A. Ilori. pp 143 - 146:**

Publisher: **National Mathematical Centre, Abuja & Department of Mathematics, University of Ibadan, Ibadan. Nigeria.**

**Percentage Contribution: 100 %**

[7] Oke, N.O., **EniOluwafe, M.** (2015) On Finite  $p$ -Groups All of whose Cyclic Subgroups  $A, B$  With  $A \cap B \neq \{1\}$  Generate an Abelian Group.

**Perspectives and Developments in Mathematics, Proceedings of Conference in honour of Professor S.A. Ilori. pp 183 - 189:**

Publisher: **National Mathematical Centre, Abuja & Department of Mathematics, University of Ibadan, Ibadan. Nigeria.**

**Percentage Contribution: 60 %**

[8] Akor, O.A., **EniOluwafe, M.** (2015) On Classification of Finite  $p$ -Groups All of whose Proper Subgroups Are of Class  $\leq 2$ .

**Perspectives and Developments in Mathematics, Proceedings of Conference in honour of Professor S.A. Ilori. pp 343 - 361:**

Publisher: **National Mathematical Centre, Abuja & Department of Mathematics, University of Ibadan, Ibadan. Nigeria.**

**Percentage Contribution: 60 %**

(d) **Patents:**  
Nil.

(e) **Articles that have already appeared in Learned Journals:**

[9] Alawode, M.A. (1999): Units of Burnside Rings of Cyclic Groups.

**Journal of Science Research, Faculty of Science, University of Ibadan, Vol. 5; No. 1; 32 - 37 (Ibadan, Nigeria).**

Publisher: **Faculty of Science, University of Ibadan**

**Percentage Contribution: 100 %**

[10] Alawode, M.A. (2001): Units of Burnside Rings of Elementary Abelian 2-Groups.

**Journal of Algebra, Vol. 237; 487 - 500: (San Diego, USA)**

Publisher: **Academic Press.**

**Percentage Contribution: 100 %**

[11] Alawode, M.A. (2001): A connection between Units of Burnside Rings and the Exterior Algebra of Elementary Abelian 2-Groups.

**Journal of Algebra, Vol. 240; 836 - 858: (San Diego, USA).**

Publisher: **Academic Press.**

**Percentage Contribution: 100 %**

[12] EniOluwafe, M. (2007): On the Number of Cyclic Quotients of some Abelian p-Groups.

**Journal of the Nigerian**

**Association of Mathematical Physics, Vol. 11; 33 - 38 (Benin City, Nigeria).**

Publisher: **NAMP, Benin City, Nigeria.**

**Percentage Contribution: 100 %**

[13] EniOluwafe, M. (2008): On the Precise Order of Unit Groups of Burnside Rings of some Finite Abelian Group.

**Journal of the Nigerian**

**Association of Mathematical Physics, Vol. 12; 23 - 28 (Benin City, Nigeria).**

Publisher: **NAMP, Benin City, Nigeria.**

**Percentage Contribution: 100 %**

[14] Olusa, O.S., Ilori, S. A., EniOluwafe, M. (2013): Projective resolutions and the homology of an induced group.

**Int. J. Algebra Vol. 7 no. 5-8, 245-250.**

Publisher: **Hikari Ltd.**

**Percentage Contribution: 30 %**

[15] Olusa, O.S., Ilori, S. A., EniOluwafe, M., (2013): On the extension problem and the nil groups of rings of finite global dimension.

**Int. Math. Forum Vol 8, no. 13-16, 653-658.**

Publisher: **Hikari Ltd.**

**Percentage Contribution: 30 %**

[16] EniOluwafe, M., (2014): Counting subgroups of finite non- metacyclic 2-groups having no elementary abelian subgroup of order 8.

**IOSR Journal of Mathematics. Vol. 10, Issue 5 Ver II pp. 31-32.**

Publisher: **International Organization of Scientific Research.**

**Percentage Contribution: 100 %**

[17] EniOluwafe, M.,(2015): Counting subgroups of type:  $D_2^{(n-1)} \times C_2$ ,  $n \geq 3$ .  
**African Journal of Pure and Applied Math. Vol. 2 Numéro 1, pp. 25-27.**  
 Publisher: **IMHOPTEP.**

**Percentage Contribution: 100 %**

[18] Ogiugo, M. E. and **EniOluwafe, M.**,(2017): Classifying a class of the fuzzy subgroups of the alternating groups  $A_n$ .  
**African Journal of Pure and Applied Math. Vol. 4 Numéro 1, pp. 34-43.**  
 Publisher: **IMHOPTEP.**

**Percentage Contribution: 60%**

[19] Olapade, O. O. and **EniOluwafe, M.**,(2017): On counting subgroups for a class of finite nonabelian p-groups and related problems.  
**African Journal of Pure and Applied Math. Vol. 4 Numéro 1, pp. 44-50.**  
 Publisher: **IMHOPTEP**

**Percentage Contribution: 60 %**

[20] Adebisi, S. A. and **EniOluwafe, M.**,(2017): Exhibition of normal distribution in finite p-groups.  
**American Journal of Mathematics and Statistics. Vol. 7 Number 4, pp. 166-168.**  
 Publisher: **Scientific & Academic Publishing.**

**Percentage Contribution: 60 %**

[21] Adebisi, S. A. and **EniOluwafe, M.**,(2020): An explicit formula for the number of distinct Fuzzy subgroups of the Cartesian product of the dihedral group of order  $2^n$  with a cyclic group of order 2.  
**Universal J. of Mathematics and Mathematical Sciences. Vol 13, no. 1, 1-7.**  
 Publisher: **Pushpa Publishing House.**

**Percentage Contribution: 60 %**

[22] Olayiwola A. and **EniOluwafe, M.**,(2019): Combinatorics of counting distinct Fuzzy subgroups of certain dihedral group.  
**Journal of Quality Measurement and Analysis. Vol. 15 Number 1, pp. 53-64.**  
 Publisher: **Universiti Kebangsaan, Malaysia.**

**Percentage Contribution: 60 %**

[23] Adebisi, S. A., Ogiugo, M., **EniOluwafe, M.**,(2020): The explicit formula for the number of the distinct Fuzzy subgroups of the Cartesian product of the dihedral group of order  $2^n$  with a cyclic group of order eight.  
**Intern. J. Fuzzy Mathematical Archive Vol 18, no. 1, 41-43.**  
 Publisher: **House of Scientific Research, China .**

**Percentage Contribution: 30 %**



[24] Adebisi, S. A., Ogiugo, M., **EniOluwafe, M.**,(2020): Distinct Fuzzy subgroups for the Nilpotent p-group of  $D_2^n \times C_4$  .

**International J. Math. Combin. Vol 1, 86-89.**

Publisher: **The MADIS of Chinese Academy of Sciences, China.**

**Percentage Contribution: 30 %**

**(f) Books, Chapters in Books and Articles already accepted for Publication:**

[25] Ogiugo, M. and **EniOluwafe, M.** (2016): On the number of fuzzy subgroups of a symmetric group  $S_5$ . Has been accepted for publication in

**International Journal of Algebra (Paper IJA 6742) July 28, 2016.**

Publisher: **Hikari Ltd.**

**Percentage Contribution: 60 %**

**(g) Technical Reports and Monographs:**

[26] EniOluwafe, M. (2009): A vector matrix approach of counting cyclic quotients of some abelian p-groups.

**ICTP Preprint No. IC 200985:**

Publisher: **ICTP, Trieste, Italy.**

**Percentage Contribution: 100 %**

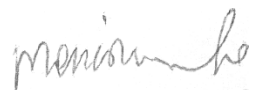
**L. Major Conferences Attended With Papers Read(in the last 5 years):**

(i) Collaborative Introduction to the Algebra Software Macaulay, Second virtual event on Abram Gannibal project. June 19<sup>th</sup>, 2020.

(ii) AIMS-Volkswagen Stiftung Workshop on Introduction to Computer Algebra and Applications, Douala (Cameroon) from October 6<sup>th</sup> to October 13<sup>th</sup>, 2017.

(iii) Abram Gannibal virtual event on Knots, Graph and SageMath July 22<sup>nd</sup>, 2020.

(iv) 19<sup>th</sup> Workshop on Algebra and Logic, Yaoundé, Cameroun. August 24-27, 2015.



**Dr M. EniOluwafe**  
**July, 2020.**

**Area of Specialisation: Algebra and its Applications.**

**Room 302.**

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