

## STAFF PROFILE

Name : Dr. M. Veeramuni  
Designation : Assistant Professor  
Department : Mathematics  
Date of Joining : 07.12.2020  
E-mail : veeramuni@americancollege.edu.in  
Profile URL : <https://vidwan.inflibnet.ac.in//profile/198774>



### Education Qualification:

Qualification	Name of the Institution	Year
Ph.D (Mathematics)	Madurai Kamaraj University, Madurai	2020
M.Phil (Mathematics)	The Madura College, Madurai	2013
M.Sc (Mathematics)	The Madura College, Madurai	2012
B.Sc (Mathematics)	S.Vellaichamy Nadar College, Madurai	2010

**Specialisation in Teaching** : Differential Equation, Algebra

**Specialisation in Research** : Differential Equation

**Research Interests** : Differential Equation

### Other Work Experience:

Institute	Designation	Period	
		From	To
The Madura College, Madurai	Assistant Professor	02.09.2013	06.12.2017
The Gandhigram Rural Institute	Guest Faculty	17.07.2019	24.12.2019
The Gandhigram Rural Institute	Guest Faculty	02.01.2020	31.05.2020

**Administrative /Academic Position/s (held / currently holding) :**

<b>Positions held / currently holding</b>	<b>Year - From (month/year) To month/year)</b>
Autonomy Coordinator (UG SF - Satellite Campus)	June 2021 - Till Date
Class Advisor- 2021 Batch (UG SF - Satellite Campus)	June 2021 - till date

**Membership In Professional Bodies:**

- **Life Member - All India Council For Technical Skill Development**
- **Reviewer - Biofuels, Bioproducts and Biorefining, Wiley**

**Research Activities:**

- **Research Paper Published :11(Appendix - I for detail)**
- **Paper Presentation in Conferences : 06(Appendix - I for detail)**
- **h - index :03**
- **i10 - index : 01**
- **Citation: 39**

**Seminars/Conferences/Workshops/Courses/Training Programs Attended:**

1. UGC sponsored State Level on Advances in mathematics and its Applications, Department of Mathematics, The Madura College, Madurai on 26<sup>th</sup> September 2014.
2. UGC sponsored Two day Competence Building Programme, The Madura College, Madurai on 2<sup>nd</sup> and 3<sup>rd</sup> January 2015.
3. National Conference on Recent Advancements in Pure and Applied Mathematics, Department of Mathematics, N.M.S.S Vasan College, Madurai on 5<sup>th</sup> January 2017.
4. One - day UGC Sponsored Extension Programme Conducted by Department of Mathematics, The Madura College, Madurai held on 9<sup>th</sup> January 2017 at Government High School, Maniyanji, Madurai.

5. Sponsored IASC, INSA, NASI on Science Academies' Lecture workshop on Mathematical Modelling, Department of Mathematics, The Madura College, Madurai during 10<sup>th</sup> and 11<sup>th</sup> February 2017.
6. AICTE Sponsored Two Weeks Faculty Development Programme on Mathematical Sciences Research Challenges in Engineering Applications, Department of Mathematics and ECE, Sethu Institute of Technology, Pulloor, Kariapatti during 20<sup>th</sup> November - 3<sup>rd</sup> December 2017.
7. International workshop on Mathematical modelling and Scientific Computing, Department of Mathematics, Gandhigram Rural Institute (Deemed to be university), Gandhigram, Dindigul during 4<sup>th</sup> - 5<sup>th</sup> September 2020.
8. Two Days International Virtual Workshop on Innovative Resources and IPR in Research, Department of Mathematics, The American College, Madurai during 08<sup>th</sup> - 09<sup>th</sup> October 2021.
9. CPE funded Faculty Development Webinar on "An Art of Writing Research Article" organized by the Department of Mathematics, The Standard Fireworks Rajaratnam College for Women, Sivakasi on 04<sup>th</sup> February 2022.

**Dated:**

**(Dr. M. Veeramuni)**

## Appendix – I

### Research Publications

#### International Journals (Listed in Wos / SCI / UGC Care):

1. K. M. Dharmalingam, **M.Veeramuni**, Hadi Rezazadeh and Cemil Tunç, Variation Iteration Method for Solving Ethanol and Acetaldehyde Concentrations in a Fixed Bed Laboratory Reactor, Applications and Applied Mathematics: An International Journal, 16(1) (2021), 383-396. **(Wos - Impact Factor: 7.835)**
2. K. M. Dharmalingam, K. Valli, **M. Veeramuni**, Analytical solution for the toluene and mixture of toluene and n-propanol in the biofilm using ADM, Chemistry Africa A Journal of the Tunisian Chemical Society. **(Wos - Springer Journal)**
3. K. M. Dharmalingam, K. Valli, **M. Veeramuni**, Ethanol and Acetaldehyde in a fixed bed laboratory reactor by the Adomian decomposition method, Malaya Journal of Matematik, 8(3) (2020), 886-892. **(UGC CARE listed Journal )**
4. K. M. Dharmalingam, K. Valli, **M. Veeramuni**, Approximate analytical solution for non-linear reaction diffusion equations in modeling of a bacterial and fungal biofilter, Advances in Mathematics: Scientific Journal, 9(1) (2020), 59-71. **(Scopus Journal)**
5. K.M. Dharmalingam, **M. Veeramuni** and T. Praveen, Analytical expressions of the substrate and mediator of multi-step enzyme electrodes, Journal of Mathematical Chemistry, 57(2019), 986 - 1000. **(SCI Journal - Springer - Impact Factor: 1.882)**
6. **M. Veeramuni**, K.M. Dharmalingam, and T. Praveen, Analysis Through an Analytical Solution of the Mathematical Model for Solid Catalyzed Reactive HiGee Stripping, Chemistry Africa A Journal of the Tunisian Chemical Society, 2(2019), 517 - 532. **(Wos - Springer Journal)**
7. K.M. Dharmalingam, **M.Veeramuni**, Akbari-Ganji's Method (AGM) for solving nonlinear reaction diffusion equation in electroactive polymer

film, Journal of Electroanalytical chemistry, 844(2019), 1 - 5. **(SCI Journal Elsevier - Impact Factor: 3.235 )**

8. **M. Veeramuni** and K.M. Dharmalingam, Analysis through an analytical solution for the SCR reaction network using HPM, International Journal of Computational Engineering Research, 08(2018), 50 - 56. **(UGC CARE listed Journal )**

#### **National Journals:**

1. **M.Veeramuni**, T. Praveen, K.Saravanakumar, L.Rajendran, Mathematical modeling of immobilized  $\alpha$  -chymotrypsin in acetonitrile medium, Journal of Global Research in Mathematical Archives, 1(2013), 53-71.
2. **M.Veeramuni**, S.Muthukumar, L.Rajendran, Analytical expression of concentration of substrate and oxygen in excess sludge production using Adomian decomposition method, Indian Journal of Applied Research, 4(2014), 389 - 392.
3. **M. Veeramuni**, D.Shanthi, L.Rajendran, Analytical solutions of non-linear initial value problem in Biochemical sciences, International Journal of Mathematical Archive, 5(2014), 150 - 159.

#### **Communicated:**

1. **M. Veeramuni**, T.Praveen, K.M.Dharmalingam, K. Saravanakumar, Comparison of analytical solution of current density with its experimental result of an (sandwich-type amperometric biosensor, 22<sup>nd</sup> FAI International Conference - 2020 . **(Accepted - Published in Springer Journal)**).
2. **M. Veeramuni**, T.Praveen, K. Saravanakumar, A comparison study between AGM and MADM for various types of immobilization of enzyme kinetic mechanisms, Theoretical Foundations of Chemical Engineering . **(Under Review - Springer Journal)**).
3. **M. Veeramuni**, K.M. Dharmalingam, Novel concepts of common fixed point results for set-valued mappings in cone metric spaces, mathematics in engineering, science and aerospace . **(Under Review - Elsevier Journal)**).

## Papers read at conferences:

### International Conferences:

1. UGC – SAP (DRS - I) International Conference on International Conference on mathematical modelling and computational methods in science and engineering (ICMMCMSE - 2017), Ramanujan Centre for Higher Mathematics and Department of Mathematics, Alagappa University, Karaikudi during 20<sup>th</sup> - 22<sup>nd</sup> February 2017.
2. International conference on mathematical methods, modeling and simulation in chemical science organized by Department of Mathematics, Department of Chemical Engineering, SSN CE Society for the Advancement of Chemical Sciences and Education, Kalpakkam, SSN College of Engineering, Chennai, 6<sup>th</sup> - 10<sup>th</sup> December 2018.
3. 22<sup>nd</sup> FAI International Conference conference on Mathematical, Computational Intelligence, and Engineering Approaches to Healthcare, Business and Tourism Analytics 2020 Jointly organized by The American College (Autonomous), Madurai, Tamil Nadu, India & FATER Academy of India, 20, 21 & 22 December 2020.

### National Conferences:

1. UGC sponsored National Conference on Applications of Differential Equations, Department of Mathematics, Bharata Mata College, Thrikkakara, Kerala during 18<sup>th</sup> – 20<sup>th</sup> September 2014.
2. DST sponsored National Conference on Recent Development in Mathematics and its applications, Department of Mathematics, The Madura College, Madurai on 9<sup>th</sup> January 2015.
3. National Conference on Advances in Mathematics and its applications to science and Engineering (AMASE - 2016), Department of Mathematics, University College of Engineering Pattukkottai, Rajamadam, Thanjavur on 22<sup>th</sup> January 2016.