

## FACULTY PROFILE TEMPLATE

Please ensure that this Template is **‘Thoroughly Followed/Replicated’** in your profile

- ❖ Please mention year of passing (Educational Qualifications)
- ❖ In case of Updating Existing Faculty profiles, please send the new additions in **‘Highlighted Form/Text’.**

### Basic Details:

- **Name:** Mrs. R.Vanaja
- **Designation:** Assistant Professor (O.G)
- **PhoneNumber:**
- **EmailID:** vanajar@srmist.edu.in
- **AreaorSubject:** Differential Equations
- **Affiliation:** Department of Mathematics,  
SRM Institute of Science and Technology,  
Ramapuram Campus,  
Chennai - 89.

### Educational Details:

- **Degree** –B.Sc., M.Sc., M.Phil.
- **Area or Subject**–Mathematics
- **University**
  - B.Sc. – Madras University
  - M.Sc. – Anna University
  - M.Phil. – Alagappa University

- **Awarded Year**

- B.Sc Mathematics – Madras University – 1997
- M.Sc Mathematics – Bharathiyar University – 1999
- M.Phil Mathematics – Alagappa University –2004

## **Other Details:**

### **Courses:**

- Mathematics-I
- Mathematics -II
- Mathematics III
- Numerical Methods
- Probability & Statistics
- Statistics & Numerical Methods
- Transforms & Partial Differential Equations
- Calculus and linear algebra
- Probability and Queueing Theory
- Discrete Mathematics

**Research Interests:** Differential Equations

### **Selected Publications:**

- K.Ramachandran and R.Vanaja, Some Subclasses of Analytic Functions With Respect to  $(j, k)$ -Symmetrical Points,. Journal of Physics, conference series, Volume 1377,2019.
- LIFO in Green supply chain inventory model of autocomponents industry with warehouses using differential Evolution, R.Vanaja, ADV Math SCI Journal, No.7, (2020)5121-5126
- FIFO in green supply chain inventory model of electrical components industry with distribution centres using particle swarm optimization, R.Vanaja, ADV Math SCI Journal, No.7, (2020)5115-5120
- Deriving non-negative solutions for Lotka-Volterra model with cross-diffusion using persistent deforming analysis method, R.Vanaja, Journal of Critical Reviews, Vol.7, Issue 10, 2020

### **Papers Presented:**

- Conference attended and presented a paper on 3rd National Conference on “Progress in Mathematics towards Industrial Applications” (NCPMTIA- 2019) on 27.09.2019 & 28.09.2019 at SRMIST- Ramapuram
- Conference attended and presented a paper on 3rd National Conference on “Progress in Mathematics towards Industrial Applications” (PMTIA- 2020) on 06.11.2020 and 07.11.2020 at SRMIST- Ramapuram

**Working Papers: 01****Work in Progress: 01****Academic Experience:**

- Asst. Prof. (O.G.), Ramapuram Campus, SRMIST, Chennai -89,  
From 01.07.2016 to till date
- Asst. Professor Vels University – Chennai From Jun. 2012 to Mar. 2013
- Sr. Lecturer Rajalakshmi Institute of Technology – Chennai From Aug. 2008 to Nov. 2011
- Sr. Lecturer Dr. Paul’s Engineering College – Pondicherry  
From Sep. 1999 to Apr. 2008

**Other Professional Experience: NIL****Workshops /Seminars/Conferences:**

- National Conference on Progress in Mathematics towards Industrial Applications (PMTIA-2019), 27<sup>th</sup> & 28<sup>th</sup> September 2019.
- Refresher Training Program on “Engineering Pedagogy for the 21<sup>st</sup> Century Teachers”, 25<sup>th</sup> to 27<sup>th</sup> June 2019.
- Workshop on Differential Equations and its Applications (WDEA -2019), 7<sup>th</sup> March 2019.
- 2<sup>nd</sup> National Conference on Recent Trends in Fuzzy Mathematics & its Applications (NCRTFMA - 2018), 26<sup>th</sup> & 27<sup>th</sup> October 2018.
- Workshop on Fluid Dynamics and its Applications (WFDA - 2018), 12<sup>th</sup> April 2018.
- National Conference on Recent Trends in Fuzzy Mathematics & its Applications (NCRTFMA – 2017), 03<sup>rd</sup> & 04<sup>th</sup> November 2017.
- Workshop on Differential and Integral Calculus on 11<sup>th</sup> August 2017.
- Workshop on Fuzzy set Theory and its Application (WFTA - 2017) on 09<sup>th</sup> March 2017.
- Attended International FDP on Astute-Efflux Trends in Mathematics at SSN College of Engineering during July 2020
- Attended International Workshop on “The Craft of Research” at SRMIST, Ramapuram
- Attended FDP on Mathematics and its applications in Science and Technology at SRMIST,KTR.
- Attended International virtual FDP-"Frontiers of Mathematics " at SRMIST, Ramapuram

**Achievements and Awards: Nil**

**Memberships:** Life Time Member Ship in Indian Science Congress

Please send in your latest **PASSPORT SIZE photograph.**



**Some examples of standard faculty profiles from other institutions:**

- <http://isb.edu/faculty/facultydir.aspx?ddlFaculty=246>
- <http://engineering.stanford.edu/research/layout.php?sunetid=cfarhat>
- <http://public.tepper.cmu.edu/facultydirectory/FacultyDirectoryProfile.aspx?id=95>