

## **FACULTY PROFILE TEMPLATE FOR WEBSITE**

### **Basic Details:**

- Name: C. Kayelvizhi
- Designation: Assistant Professor
- Phone Number:- 9150038476
- Email Id: kayelvic.srmist.edu.in
- Area of Specialization: Differential Equations
- Affiliation: Faculty of Science and Humanities, SRMIST Ramapuram

### **Educational Details:**

- Degree – B.Sc
- Area or Subject – Mathematics
- University – Bharathidasan University
- Awarded Year – 2018
- Degree – M.Sc
- Area or Subject – Mathematics
- University – Bharathidasan University
- Awarded Year – 2020
- Degree – Ph.D
- Area or Subject – Mathematics, Numerical Solutions to Delay Differential Equations
- University – Bharathidasan University
- Awarded Year –

## Other Details:

**Research Interests:** Delay Differential Equations, Differential Equations, Fuzzy Theory, Numerical Methods.

### **Selected Publications:**

1. C. Kayelvizhi and A. Emimal Kanaga Pushpam. (2023). Polynomial collocation methods based on successive integration technique for solving system of neutral delay differential equations. Ratio Mathematica, 48: 597 – 613. Available from: <https://doi.org/10.23755/rm.v48i0.1417>
2. C. Kayelvizhi and A. Emimal Kanaga Pushpam. (2024). Application of Polynomial Collocation Method Based on Successive Integration Technique for Solving Delay Differential Equation in Parkinson's Disease. Indian Journal of Science and Technology, 72 (2): 112 – 119. Available from: DOI:10.17485/IJST/v17i2.2573.
3. C. Kayelvizhi and A. Emimal Kanaga Pushpam. (2024). Solving Neutral Delay Differential Equations Using Galerkin Weighted Residual Method Based on Successive Integration Technique and its Residual Error Correction. Indian Journal of Science and Technology, 17 (8): 732 – 740. Available from: DOI:10.17485/IJST/v17i8.3195.

### **Papers Presented:**

### **Working Papers:**

### **Work in Progress:**

Research Experience:

Academic Experience:

### **Workshops /Seminars/Conferences:**

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