

**Dr.K.Sumathi**

*Associate Professor and Head*



<b>Name</b>	:	<b>Dr.K. Sumathi</b>
<b>Designation</b>	:	Associate Professor and Head
<b>Department</b>	:	Mathematics (Aided)
<b>Qualification</b>	:	<b>M.Sc., M.Phil., Ph.D., PGDCA</b>
<b>Experience</b>	:	Teaching -31 Years      Research      : 20 Years
<b>Field of specialization</b>	:	<i>Applied Mathematics – Fluid dynamics – Stability theory</i>
<b>Email</b>	:	<b>ksumathi@psgrkcw.ac.in</b>

**Academic Qualifications**

College / University	Degree Obtained	Year of Passing	Grades / Marked Obtained
Bharathiar University	Ph.D	1995	Highly Commended
Bharathiar University	M.Phil	1988	Outstanding
Bharathiar University	M.Sc	1987	Outstanding
Madurai Kamaraj University	PGDCA	1995	Outstanding

**Additional Qualifications**

**CoursEra Courses completed - 100**

**Research Guidance**

**Completed      :      M.Phil -40      ; Ph.D. - 11**

**Research Publications (Indexed)**

**60+    List is available in the following link**

**[https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&hl=en&user=S2Rk5HEAAAAJ&pagesize=80](https://scholar.google.com/citations?view_op=list_works&hl=en&hl=en&user=S2Rk5HEAAAAJ&pagesize=80)**

**Science Communications**

**13**

**Book Published - Four**

- ❖ Engineering Mathematics I      Sri Vignesh Publications (2011) (ISBN No. 13-978 -93-80716-11-4)
- ❖ Engineering Mathematics II      Sri Vignesh Publications (2013) (ISBN No. 978-93-80716-46-6)
- ❖ Engineering Mathematics III      Sri Vignesh Publications (2013) (ISBN No. 978-93-80716-

15-2)

❖ Statistics with Excel Blue Hill Publishers (2019) (ISBN No. - 978-81-939936-0-6)

**Hand books/ SOP/ Lab manuals Published - 15**

**Acted as a Resource Person – 150 + Invited Talks**

**Editorial Board member in journals**

- *Advances in Applied Research*
- *Reflections des era - Journal of Mathematical sciences*

**Reviewer in Journals**

**Around 10 Journals**

**Grants Received**

S.No.	Date	Event	No. of Beneficiaries
1	21.12.2011 22.12.2011 23.12.2011	Science Academies' Lecture workshop on <b>Differential Equations and their applications</b> <i>Amount Sanctioned</i> Rs. 1 34 000/-	200
2	14.5.2012 to 18.5.2012	<b>INSPIRE Internship Programme</b> <i>Funded by</i> DST, India, <i>Amount Sanctioned</i> Rs. 9 75 000/-	150
3	27.8.2012 To 8.9.2012	Science Academies' Refresher Course on <b>Theoretical and Computational Fluid Dynamics</b> <i>Amount Sanctioned</i> Rs. 4 95 050/-	32
4	02.01.2014 to 04.04.2014	Science Academies' Lecture workshop on <b>Recent Trends in Functional Analysis</b> <i>Amount Sanctioned</i> Rs. 1 69 000/-	190
5	22.12.2014 to 24.12.2014	Science Academies' Lecture workshop on <b>Fluid dynamics and its applications</b> <i>Amount Sanctioned</i> Rs. 1 57 000/-	210
6	7.1.2015 To 9.1.2015	NBHM Sponsored <b>International conference on Applications of mathematics in Engineering, Science and technology</b> <i>Funded by</i> NBHM, Department of Atomic Energy, Mumbai <i>Amount Sanctioned</i> Rs. 1 30 000/-	140
7	22.12.2015 & 23.12.2015	Science Academies' Lecture workshop on <b>Special functions and their applications</b> <i>Amount Sanctioned</i> Rs. 1 15 000/-	137
8	21.12.2016- 23.12.2016	Science Academies' Lecture workshop on <b>Mathematical modelling</b> <i>Amount Sanctioned</i> Rs. 1 63 000/-	233
9	11.09.2017 To 23.09.2017	Science Academies' Refresher Course on <b>Differential equations and its applications</b> <i>Amount Sanctioned</i> Rs. 7 36 200/-	32

**Institutional projects co-ordinated**

UGC Paramarsh Mentoring Scheme Amount Sanctioned Rs. 30 Lakhs – September 2019 – September 2021

UGC STRIDE Developing Digital pedagogies – Amount Sanctioned Rs. 59.1 Lakhs – January 2020 – February 2023

**Minor Projects Completed**

1. UGC Minor project entitled Stability of flow through porous medium – 2014 -15

Amount received – Rs.80000/-

2. GRG Trust Book grant – Business Statistics with Excel – 2017-18

Amount received – Rs. 20000/-

### **Membership in Professional Bodies**

#### ***Life member in***

- Indian Mathematical Society
- Indian Society of Theoretical and applied mechanics
- Indian Chapter of ICTP

### **Awards/Honors**

- ❖ ***DG NCC Plaque of Honour*** for the year 2001-2002 for being selected as the best all round NCC Officer
- ❖ **Awarded CSIR – UGC (Net) Junior Research Fellowship**
- ❖ **Best Faculty Award for the year 2011** – Cognizant Technologies Ltd & PSGR Krishnammal College Women
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- ❖ **Best Faculty Award for the year 2015** – PSGR Krishnammal College Women
- ❖ **Best Faculty Award for the year 2016** – Cognizant Technologies Ltd & PSGR Krishnammal College Women
- ❖ **Certificate of Excellence 2021** – Internshala University
- ❖ **Teaching Excellence Award – 2025** – Lions' Club

### **Received grants to attend the following**

1. III SERC School on Geophysical Fluid dynamics at IITM., Pune, During 21.5.1996 – 22.06.1996 – Supported by Department of Science and Technology, Government of India, New Delhi
2. Intel Teach to the Future – Master Trainer Course  
Supported by Microsoft – 15.02.2002 – 14.03.2002  
(An international program conducted in 20 cities of 20 countries)
3. ICWM 2010 (International conference of Women Mathematicians) at University of Hyderabad – 17.08.2010 – 18.08.2010 – Supported by NBHM, Department of Atomic energy, Mumbai
4. 24<sup>th</sup> Midyear meeting of the academy at Bangalore during 05.07.2013 – 06.07.2013 – Supported by Indian Academy of Sciences, Bengaluru

5. 25<sup>th</sup> Midyear meeting of the academy at Bangalore during 04.07.2013 – 05.07.2013 – Supported by Indian Academy of Sciences, Bengaluru
6. 80<sup>th</sup> Annual meeting of the academy at Chennai during November 7 -9, 2014– Supported by Indian Academy of Sciences, Bengaluru
7. 79<sup>th</sup> Annual meeting of the academy at Chandigarh during November 13 – 15, 2013. (Not availed due to personal reasons)
8. Summer fellowship to work at IISc, Bangalore with Dr.PL Sachdev during 2002 – 2003 - Supported by Indian Academy of sciences, Bangalore (Not availed due to personal reasons)

### **Contribution to Department/College activities**

#### **Department Level**

S.No.	Activity	No. of years	Particulars
1	Mathematics Association Staff Advisor	5	1998-2000, 2007-09, 2011-12
2	Class Advisor/ Attendance In Charge	16	All the years except 1998-99, 2001-02, 2005-07
3	Placement In Charge	2	2007-08, 2011-12
4	Eco Watch Club In Charge	2	2007-08, 2011 -12
5	Industrial Visit Coordinator/ Escort	9	1994-96, 2007-09, 2010-11, 2013-14, 2014-15
6	Library In Charge	5	1995-97, 2001-02, 2007-08, 2010-11
7	Time Table In Charge	11	1996-99, 2002-03, 2007-08, 2009-15,
	CMS In Charge	7	2008- 2009 to till date
8	Admission Duty U G	8	1995-96, 1997-98, 1999-2000, 2002-03, 2005-06, 2008-09, 2011 -12, 2014-15
	M. Phil.	6	2009-10 to till date
9	IEDC Duties	3	2010-13
10	Preparation of NAAC, Academic Audit, M. Phil. /Ph.D reports		Whenever need arises
11	PTA Meeting		Periodically arranged
12	Alumni meeting		Periodically arranged
13	Gandhian Studies Centre Students' research project		2007-08, 2008-09

#### **College Level**

***NCC Care taker***

***1999 – 2000 NCC Officer 2000 – 2009***

#### ***Important Achievements***

- Increased the cadet in take from 100 to 150 in the year 2007 -2008.
- 6 Cadets were sent to Foreign Countries like Singapore, UK, Vietnam, Russia and Bhutan under Youth Exchange programs.

#### **Roll of Honour**

S.NO	YEAR	RDC	TSC	VSC	NIC
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1.	1999-2000	3	4		5
2.	2000-2001	3	1		14
3.	2001-2002	7*	1	3	4
4.	2002-2003	4	1	3	7
5.	2003-2004	5	2	1	3
6.	2004-2005	1	3	1	4
7.	2005-2006	2	1		1
8.	2006-2007	4	1	1	2
9.	2007-2008	2	2	2	6

\* State Record of Maximum number of Cadets attending Republic Day parade from the same institution.

\* Cadets Received Commendation letter from Walter Devaram, IPS, (Retd.) Director General of Police.

### ***Karishma 2008 Inter Collegiate Program Co-ordinator 2008 -2009***

- Special Invitees : Ms. **Srilekha Parthasarathy** (Play back Singer) and  
Mr. **Vijay Adhiraj** (TV Anchor and Director)

### ***Center for E-Resources Co-ordinator 2009 – till date***

- Developed a database of subject materials and question banks for all the subjects.
- Developed around 50 lectures in Video mode.

### ***Spoken Tutorials Project of IIT, Bombay, Sponsored by Ministry of Human Resources Development, New Delhi - Coordinator***

### ***UGC SET/ NET Coaching Co-ordinator 2009 -2010***

#### ***Guest lectures***

- Handling classes for B.Sc. Computer Science and M.Sc. Mathematics.
- Handled ACS, CA CPT Coaching classes.

### ***Included Department of Mathematics under Book distribution scheme – NBHM***

#### ***Other Contributions***

- ADD – ON Course of Optimizing Technology Coordinator 2008-09, 2010-11,
- Research Cell member 2009 – 10 to till date
- Consultancy Cell member
- Organized Interface meeting for the Department
- Participated in the Basic Science promotion events organized by the college
- Promotion of education fairs
- BSR Grant administration

### ***ISO 9001: 2000 Internal Quality Auditor since 2007 -2008***

### ***IQAC co –ordinator from 2017-18 to 2019-20***

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