

**Dr. S. Karthigeyan**

**Office Address** : Assistant Professor,  
Department of Mathematics,  
Dr. Ambedkar Government Arts College,  
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**ACADEMIC DETAILS** : M.B.A. in Operations Management, 2015, University of Madras, Chennai  
: Ph.D. in Operations Research, 2004, Anna University, Chennai.  
: M.Sc. Mathematics, 1999, First Class, Anna University, Chennai.  
: B.Sc. Mathematics, 1996, First Class, Pachaiyappa's College, Chennai.

**TECHNICAL SKILLS** : Type writing: English, Senior Grade (Higher)

**COMPUTER SKILLS** : Programming Languages: C, C++, Visual C++, VB, VB .Net, Java  
RDBMS: Oracle, PL/SQL.  
Operating Systems: Windows XP, Windows 7, MS-DOS  
Microsoft Office: Word, Power point, Excel, Access

**PACKAGES** : Statistical: SPSS, Minitab, Statistica  
Mathematical: MATLAB

**DEPARTMENTAL TEST:**

**The Account Test for Executive Officers** (Test code No. 114), Date of Examination: 27/12/2009 FN, Passed. Registered No. : 020470, Tiruvallur. Published in the Gazette, dated 16.03.2010, page no. 490.

**RESEARCH EXPERIENCE** : 8 YEARS +

**TEACHING EXPERIENCE** : 15 YEARS + (UG – 15 YEARS +; PG – 13 YEARS +)

Designation	Department	Institution	Period
Assistant Professor	Mathematics	Dr. Ambedkar Government Arts College, Vyasarpadi, Chennai – 39	20.07.2010 – till date
Assistant Professor	Mathematics	L. N. Government college, Ponneri - 601204	26.12.2007 – 19.07.2010
Lecturer	Mathematics	College of Engineering, Guindy, Anna University, Chennai - 25	18.02.2005 – 24.12.2007
Visiting Lecturer	Mathematics	College of Engineering, Guindy, Anna University, Chennai - 25	16.06.2001 – 17.02.2005
Lecturer	Mathematics	Sree Muthukumaraswamy College, Chennai – 118	01.07.1999 – 30.06.2000

- **Handling Courses of M.B.A. Programme**, Centre for Distance Education, Anna University, Chennai – 600 025 on weekends from January 2007 to till date.
- **Visiting Faculty**, Department of Management Studies, College of Engineering, Guindy, Anna University, Chennai – 600 025 during evening from August 2000 to December 2011.
- **Guest Lecturer**, Department of Mathematics and Computer Science, Dr. Dharmambal Govt. Polytechnic for Women, Tharamani, Chennai – 600 113, from September 2000 to April 2001.

### **ADMINISTRATIVE POST HELD**

- ❖ **Head**, Department of Mathematics, L. N. Government College, Ponneri – 601 204 from 02.03.2009 to 19.07.2010.

### **OUTSTANDING EXPERIENCE**

- Serving as **NSS Programme Officer**, Dr. Ambedkar Government Arts College, Vyasarpadi, Chennai from August 2011 to till date.
- Served as **YRC Programme Officer**, Dr. Ambedkar Government Arts College, Vyasarpadi, Chennai from July 2011 to July 2013.
- Served as **NSS Programme Officer**, CEG, Anna University, Chennai during September – December, 2008 and conducted a Special Camp at Vallakkottai village, Kancheepuram District which enabled the unit to receive the distinguished award as “**the best unit of the year 2008**” among all the engineering colleges under the control of Anna University Chennai.
- Served as **an active volunteer** during the 6<sup>th</sup> National Children’s Science Congress 98, held at Anna University, Chennai, during December 27-31, 1998.

### **DEVELOPMENT ACTIVITIES**

- **Nodal Officer, new voters’ enrollment in the voter list**, Dr. Ambedkar Govt. Arts College, Vyasarpadi, Chennai – 39.
- **Member, Board of Studies** for UG and PG courses of School of Engineering at Vels University, Pallavaram, Chennai – 117.
- **External Expert for the conduct of Academic Audit** in the PG Department of Mathematics, Women’s Christian College, Chennai.
- M.Phil. (Mathematics) and M.Sc. (Mathematics and Computer Science) Final year project **Viva-Voce internal Examiner**, at Department of Mathematics, Anna University Chennai.
- M.B.A. Final year project **Viva-Voce Internal Examiner**, Distance Education, Anna University, Chennai.
- M.B.A. Final year project **Review committee member**, Distance Education, Anna University, Chennai.

Actively involved in **revising the syllabus** of the following subjects:

- “Operations Research, Programming in C” for B.Sc. Mathematics (2011) and Operations Research, Mathematical Programming, Visual Programming, Java Programming, Programming in C++” for M.Sc. Mathematics (2011), Department of Mathematics, Dr. Ambedkar Govt. Arts College, Vyasarpadi, Chennai-39.
- “Statistics for Management“ for M.B.A. (2002, 2004), “Probability and Statistics” for M.Sc. Environmental Science (2004) at Department of Mathematics, Anna University, Chennai-25.
- “Engineering Mathematics” for Diploma courses (2004) at Dr. Dharmambal Govt. Polytechnic for Women, Tharamani, Chennai – 113.

Actively involved in **External Examiner, Setting Question Papers** for various College:

L. N. Government College, Ponneri; Presidency College, Chennai; Government Arts college for Men, Nandanam, Chennai; RKM Vivekananda College, Chennai; D.G. Vaishnav College, Arumbakkam, Chennai; Quithe-Milleth College for Women, Chennai; Bharathi Women's College, Chennai; Queen Mary's College for Women, Chennai; Women's Christian College, Chennai; Ethiraj Women's College, Chennai; JBAS College for Women, Chennai; Vel's University, Chennai; University of Madras, Chennai; Thiruvallur University, Vellore.

**INVITED TALK (RESOURCE PERSON)**

Sl. No.	Institution	Department	Topic	Date
1.	Annai Violet College of Arts and Science, Pattaravakkam, Chennai.	Mathematics	Statistics and Operations Research in Real life	16.09.2015
2.	Alpha Arts and Science College, Porur, Chennai – 116.	Mathematics	Basics and Applications of Operations Research	12.08.2015
3.	Sri Ganesh College of Arts and Science, Salem	Mathematics	Basics of Operations Research and Scheduling	08.01.2015
4.	R. B. Gothi Jain College for Women Arts and Science, Redhills	Mathematics	Mathematics in Real Life	03.09.2014
5.	Women's Christian College	Mathematics	Elements of Operations Research and Scheduling	28.09.2013
6.	Thirumurugan Arts and Science College for Women	Mathematics	Beyond and Behind the theory of Operations Research	16.09.2013
7.	Dr. M.G.R. Janaki College of Arts and Science for Women	Mathematics	Operations Research ?	04.09.2013
8.	NIIT VSAT programme, Nungambakkam, Chennai	Mathematics	Engineering Mathematics, Series of Lectures	15.02.2013, 22.02.2013, 01.03.2013, 15.03.2013, 05.04.2013
9.	C.T.T.E. College for Women, Sembium, Chennai	Mathematics	Applications of Operations Research in Real life	07.02.2013
10.	Mahalakshmi Women's college for Arts and Science, Paruthippattu, Avadi.	Mathematics	Operations Research: Introduction & Applications	24.01.2013
11.	Soka Ekeda Arts and Science college for women, Madhanakkupam, Chennai	Mathematics	Operations Research: Introduction & Applications	22.01.2013
12.	Magna Engineering College, Redhills	Mathematics	Applications of Mathematics in Engineering	08.11.2012
13.	NIIT VSAT programme, Nungambakkam, Chennai	Mathematics	How maths can save your life? and Matrix	30.10.2012
14.	Annai Velankanni college for Women, Saidapet, Chennai	Mathematics	Applications of Mathematics in Real Life	27.09.2012
15.	Perunthalaivar Kamarajar Matriculation Higher Secondary School, Minjur – 601 203	Ramanujan Club Fest	General Mathematics	13.01.2012
16.	Thiruthangal Nadar College, Chennai	Mathematics and Computer Science	Object Oriented Mathematical Programming	February, 2011
17.	C.T.T.E. College for Women, Sembium, Chennai	Mathematics	Origin and Scope of Operations Research	24.01.2011
18.	MOP Vaishnav College for Women, Chennai	Mathematics	Introduction to Mathematical Programming	03.12.2009 FN
19.	Bharathi Government Arts College for Women, Chennai	Mathematics	Introduction to Statistics and its applications	03.12.2009 AN
20.	Ethiraj College for Women, Chennai	Mathematics	Applications of Optimization Techniques in Real time problems	27.08.2009
21.	St.Thomas College, Koyembedu, Chennai	Mathematics	Introduction to Scheduling	12.01.2009
22.	Agarsen College, Madhavaram, Chennai – 60	Mathematics	Operations Research – A survey	09.01.2009

23.	Sri Devi Arts and Science College, Ponneri	Mathematics	Applications of Statistics	March, 2008
24.	Agarsen College, Madhavaram, Chennai – 60	Mathematics	Introduction to Sampling	February, 2008
26.	Vel Multi Tech Sri Rangarajan Sakunthala Engineering College, Avadi	Computer Science and Engineering	Object Oriented Analysis and Design	August, 2005
27.	Ambattur Township High School, Korattur, Chennai	Maths Club	General Mathematics	28.08.2000

**CONFERENCES / SEMINARS / SYMPOSIUM (NATIONAL / INTERNATIONAL)**

Sl. No.	Title of the Conference / Seminar / Symposium	Institution	Period	Participated/ Paper Presented / Invited Talk	Title of the Paper / Talk
1.	National Seminar on “Recent Advances in Mathematical Computing”	Sri Ganesh College of Arts and Science, Salem	08.01.2015	<b>Invited Talk</b>	Basics of Operations Research and Scheduling
2.	National Symposium on Recent Advancements in Mathematics (NSRAM) – 2012, Loyola College, Chennai – 34	Ambedkar All India Mathematics & Social Sciences Trust, Thiruvanniyur, Chennai -41.	21.11.2012	Participated	---
3.	National Seminar on <i>Frontiers of Mathematics</i>	Ethiraj College for Women, Chennai-8	15.10.2012 and 16.10.2012	<b>Paper Presented</b>	A survey on Fuzzy-Production Scheduling
4.	National Seminar on “Recent Developments in Pure and Applied Mathematics”	The Standard Fireworks Rajaratnam College for Women, Sivakasi	20.01.2011 and 21.01.2011	<b>Invited Talk</b>	Single Machine Scheduling with early, tardy and setup costs – A Review
5.	State Level Seminar on “Mathematics – Schema of Diverse Dimensions”	MOP Vaishnav College for women, Chennai	04.12.2010	<b>Invited Talk</b>	Recent Development in Single Machine Scheduling
6.	National Seminar on “Mathematical Modeling Through Computational Intelligence”	Meenakshi College for Women, Chennai- 24	11.08.2010	Participated	---
7.	National Level Technical Seminar on “Research issues in Operations Management”	Anna University, Chennai – 25	22.05.2008 and 23.05.2008	Participated	---
8.	International conference on Soft Computing	Bharath Institute of Higher Education and Research(Deemed University), Chennai-73	28.05.2004 and 29.05.2004	<b>Paper Presented</b>	Minimizing the total early, tardy and setup costs with distinct ready times on a single machine scheduling

9.	International Conference on “Operations Research for Development” (ICORD 2002)	Anna University, Chennai – 25	27.12.2002 to 30.12.2002	Participated	---
10.	Sixth Annual Conference : The Society of Operations Management	I.I.M., Kozhikode	20.12.2002 to 22.12.2002	<b>Paper Presented</b>	Single machine early / tardy cost problem with setup times

### **RESEARCH PUBLICATIONS (NATIONAL / INTERNATIONAL)**

1. **Karthigeyan S.** and Kumar R.B. (2002), ‘Single Machine early / tardy cost problem with setup times’, Sixth Annual conference: The Society of Operations Management, December 20-22, I.I.M. Kozhikode.
2. **Karthigeyan S.** and Kumar R.B. (2004), ‘Minimizing the total early, tardy and setup costs with distinct ready times on a single machine scheduling’, International conference on soft computing , May 28-29, Bharath Institute of Higher Education and Research (Deemed University), Chennai - 73.
3. Delhibabu R. and **Karthigeyan S.**, (2009), ‘Optimal Recovery Schemes in Distributed Computing a Short Survey’- International Conference on Mathematics and Computer Science 2009 (ICMCS 2009), January 5-6, Loyolla College, Chennai, Vol 2., pp.458-461.
4. **Karthigeyan S.**, (2011), “Single machine scheduling with early, tardy and setup costs – A review”, National Seminar on *Recent Developments in Pure and Applied Mathematics*, January 20<sup>th</sup> and 21<sup>st</sup> 2011, The Standard Fireworks Rajaratnam College for Women, Sivakasi.
5. **Karthigeyan S.** and Jayanthi S.E., (2012), “A survey on Fuzzy-Production Scheduling”, National Seminar on *Frontiers of Mathematics*, 15<sup>th</sup> and 16<sup>th</sup> October, Ethiraj College for Women, Chennai - 8.
6. Jayanthi S.E., and **Karthigeyan S.**, (2013), “One-operation Jobs scheduling under Fuzziness – A review”, International Journal of Fuzzy Mathematics and Systems, Vol. 3, No.3, pp. 251-257.
7. **Karthigeyan S.**, Balarama murthy S. and Saranya A. (2015), “Fuzzy Optimized production EOQ model with deterioration rate and allowing the shortages”, International Journal of Applied Engineering Research, Vol.10, No.80, pp. 13-17.

### **BOOK PUBLISHED**

- ❖ **Karthigeyan S.**, (2007), “Statistics for Management” – Course Material for First Semester (Centre for Distance Education, Anna University, Chennai) M.B.A. Students.

### **RESEARCH ACTIVITY**

- **Editorial Board Member**, Applied Mathematics in Science and Technology Journal, from 2013.

### **WORKSHOP CONDUCTED (resource person)**

- Workshop Title : “Statistical Applications”  
Place: Department of Mathematics, Alpha Arts and Science College, Porur, Chennai-116.  
Date: 22.01.2016 and 23.01.2016
- Workshop Title : “Sampling Distribution, Estimation and Testing of Hypothesis”  
Place: Department of Mathematics, Balamani Arunachalam College of Engineering,  
Maraimalai Nagar, Kancheepuram Dt.  
Date: 15.12.2010 and 18.12.2010
- “Career Guidance Programme” for +2 students at Thiyagi TSK Higher Secondary School, Mathur, Kanchipuram District on 06.12.2007 arranged by NSS Unit II and VIII of CEG, Anna University, Chennai – 25.

### **WORKSHOP PARTICIPATED / TRAININGS UNDERGONE**

- **Refresher Course in Mathematics**, Batch XXX conducted by UGC-ASC, University of Madras from 05.11.2014 to 25.11.2014.
- Two days **workshop** on “Role of Youth Health Clubs on Non-Communicable Diseases”, Cancer Institute (WIA), Adayar, Chennai held on 30.07.2013 and 31.07.2013.
- Two days **National Level workshop** on “Recent Advances in Mathematical Computing”, VIT University Chennai Campus, Chennai – 48 held on 30.11.2012 and 01.12.2012.
- **Orientation Course for NSS Programme Officers** conducted by Empanelled Training Institution, Madras School of Social Work, Chennai – 8 from 20.02.2012 to 25.02.2012.
- One day **Seminar for YRC Programme Officers** sponsored by IRCS, TNB held at Queen Mary’s College, Chennai – 4 on 05.08.2011.
- **Five-day workshop** on “Easy Now (Multiple deliverables from single electronic source for ODL system)” held from 01.02.2010 to 05.02.2010 at EMMRC, Anna University Chennai, Chennai – 600025.
- **Two-day workshop** on “ETV/e-content production” held at EMMRC, Anna University Chennai during 29.01.2010 and 30.01.2010.
- **Refresher Course in Mathematics**, Batch XXV conducted by UGC-ASC, University of Madras from 05.11.2009 to 25.11.2009.
- **The CLIA workshop** on “Semantic Approaches to Information Management” (SEMiMAN 2008), Department of Computer Science and Engineering, Anna University, Chennai – 25, during 14.03.2008 and 15.03.2008.
- **Orientation (Intensive Training) programme** conducted by UGC-ASC, University of Madras from 26.12.2007 to 24.01.2008.

- **Three-day workshop** on “Application of SPSS for Data Analysis” conducted by Everonn Learning Academy, Chennai from 16.08.2007 to 18.08.2007.
- **TEQIP funded One-day workshop** on “Mentoring youth and Adolescents” at Anna University Chennai on 16.05.2007.
- **TEQIP sponsored faculty development training programme** on “Quantitative Techniques for Research in Engineering and Management” at Department of Industrial Engineering, Anna University Chennai during 08.02.2007 and 09.02.2007.
- **Faculty Development training programme** on “Quantitative Techniques for Research in Engineering and Management”, Centre for Faculty Development, Anna University, Chennai – 25, from 05.12.2005 to 07.12.2005.
- **Workshop** on “Reliability and Warranty”, ORSI, Chennai Chapter, Anna University, Chennai on 20.12.2004.

**No. of M.Sc. (Mathematics, Computer Science & Information Technology) Projects Guided** : 20  
(Anna University Chennai)

**No. of M.Sc. (Mathematics) Projects Guiding** : 02  
(Women Christian College, Chennai)

**No. of M.B.A. Students Guided** : 110  
(Distance Education, Anna University Chennai)

**No. of M.B.A. Students Guiding** : 05  
(Distance Education, Anna University Chennai)

**Doctoral Committee member of Ph.D. Scholars** : 04  
(SRM University, Anna University Coimbatore)

**No. of M.Phil. Students Guided** : 04  
(Bharathidasan University, Mother Theresa Women University, Annamalai University, Alagappa University)

**No. of Ph.D. Scholars Guiding** : 03  
(Bharathiar University)

**Membership in Professional Bodies** : 1. Operations Research Society of India (ORSI), Chennai Chapter  
2. Ramanujan Mathematical Society, Life Member.

**Ph.D. Guideship** : Approved by Bharathiar University, Coimbatore.

**Dr.S.KARTHIGEYAN**