Faculty Profile

K.Thilakavalli M.C.A., M.Phil., MIAENG.,

(Google Scholar Citations: 23; h-index: 2; i10-index:1)

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	Educational Qualification		
Course	**Year of Passing**	**% marks secured**	**Institute**
M.Phil	**2010**	**92**	Prist University, Tanjore
M.C.A	**2009**	**82**	Sengunthar Engineering College, Tiruchengode.
B.Sc (Physics)	**2006**	**78**	Maharaja College for Women, Perundurai
H.S.C	**2003**	**78**	Vellalar Matric Hr. Sec. School, Erode
S.S.L.C	**2001**	**78**	Vellalar Matric Hr. Sec. School, Erode

Summary of Professional Work Experience

❖ **Working as an Assistant Professor in the Department of Computer Science, K.S.Rangasamy College of Arts and Science (Autonomous), Tiruchengode from 17th August 2021 to till date.**

❖ Working as an Assistant Professor in the Department of Computer Science and Applications, Vivekanandha College for Women, Tiruchengode from 29th May 2019 to 5th October 2020

❖ Worked as an Assistant Professor in the Department of Computer Applications, Karpagam University, Coimbatore from 11th July 2016 to 31-03-2017.

❖ Worked as an Assistant Professor in K.S.R College of Arts and Science for Women, Tiruchengode from 10th June 2013 to 24th April 2015.

❖ Worked as an Assistant Professor in Sengunthar College of Engineering, Tiruchengode from 10th June 2009 to 23rd May 2013.

Roles and Responsibilities:

➢ Class Advisor from 2009 to 2024

➢ Department Event Coordinator.

➢ Department Academic Coordinator.

➢ Department Timetable Coordinator.

➢ Department BOS Coordinator

Funding project / Honorarium

Publications

National Conference:

1. K.Thilakavalli, "An Efficient Mitigating Strategy for Protective Jamming and Localizing the jammers in WSN", National Conference on Networking and Communication Systems NCS-13.

2. K.Thilakavalli and K.Mahalakshmi, "Numerous Image Transaction with Reduced Space Using Encoding Compression Technique", National Conference on Innovative Computing, PP: 356-360.

3. D.Rajagopal, K.Thilakavalli, "A Study : UML for OOA and OOD", National Conference on Recent Trends and Advances in Information Technology, September 2016, Page :59.

4. K.Thilakavalli and D.P.Savithri, "Enhancing Quality in Higher Education through Outcome Based Education", NAAC Sponsered National Seminar, January 2023, Page:96

International Conference:

1. N.Indumathi, A.Jaya jothi, K.Thilakavalli, "Biometric Face Recognition System and Its Applications- A Review", International Conference on Information & Image Processing(ICIIP),Volume 1, PP. 75-78.

2. K.Thilakavalli, K.Mahalakshmi, N.Indumathi, "Multicast Intrusion Detection in Wireless Environment", International Conference on Information & Image Processing (ICIIP), Volume 1, PP. 82-84.

3. A.Jaya jothi, K.Thilakavalli, K.Mahalakshmi "High pace Intranet Grid Computing over the Internet", International Conference on Information & Image Processing(ICIIP),Volume 1, PP. 182-185.

4. R.Jeevitha, K.Thilakavalli, **D.Rajagopal** presented the paper on "Quality of Service Analysis for Cluster Based Routing Protocol in MANET", in International Research Conference on Advances in Computer Science & Information Technology, Organized by KG College of Arts and Science, 4th February 2017.

Book Chapters:

1. D. Rajagopal, K. Thilakavalli Published a Chapter in "Cognitive Science and Technology - Ella Hunter" in "Chapter 23- Proficient Constitution For Online Educational Environment Using Feedback Analysis", PP: 128-132. Published by The English Press, New York, ISBN: 978-1-9789-2187-0.

International Journals:

1. M.Sc. K. Thilakavalli, M.Sc. D. Rajagopal, "Proficient Constitution For Online Educational Environment Using Feedback Analysis", International Journal of Cognitive Research in Science, Engineering and Education, Vol. 2, No.1, 2014.PP.87-91. **(Indexed by :Scopus, EI Compendex, Emerging Sources Citation Index)**

2. K.Thilakavalli, D.Rajagopal, "Techniques to Improve E-Learning Using Feedback Analysis", "International Journal of Information Technology and Electrical Engineering (ITEE)", Volume-3, Issue-4, PP 20-23, Aug-2014. **(UGC Care List B)**

3. K.Thilakavalli, D.Rajagopal, J.Sateesh, A.Syedalifathima, "Numerous Image Transaction with Reduced Space using Encoding Compression Technique", "International Journal of Information Technology and Electrical Engineering(ITEE)", Vol.3,Iss.5, Oct 2014, **(UGC Care List B).**

4. K.Thilakavalli, D.Rajagopal, "Monitoring Internet Access along with usage of Bandwidth using Intrusion Detection System", International Journal of Sensor Networks and Data Communications, Vol.4 Iss.1, Jan-2015.(Journal Impact factor:1.41)

5. K.Thilakavalli, D.Rajagopal, "Efficient Text Mining Prototype for Big Data", International Journal of Data Mining and Emerging Technologies, Vol.5, No.1, May-2015, PP: 38-41.

6. K.Thilakavalli, D.Rajagopal, K.Syed Ali Fathima, "New Approach to Monitoring Internet Access along with Usage of Bandwidth Using Intrusion Detection System", International Journal of Security and Its Applications, Vol.9, No.6, 2015, PP: 183-194. **(Indexed by :Scopus, EI Compendex, Emerging Sources Citation Index)**

7. K.Thilakavalli, D.Rajagopal, "Secure Image Transaction with Reduced Space Using Encoding Technique", International Journal of Communication Technology for Social Networking Services, Vol.3, No.1, 2015, PP: 1-10.

8. K.Thilakavalli, D.Rajagopal, "New Approach to Monitoring Internet Access along with Usage of Bandwidth Using Intrusion Detection System", International Journal of Communication Technology for Social Networking Services, Vol.3,No.1,2015, PP:11-22.

9. K.Thilakavalli, D.Rajagopal, "Comparison of different sorting algorithms in Data Structure based upon the Time Complexity", International Journal of Technology, Vol.6, Issue. 1, 2016.

10. K.Thilakavalli, D.Rajagopal, "Different Sorting Algorithm's Comparison based upon the Time Complexity", International journal of u- and e-service, science and technology, vol.9, No.8, Aug 2016.

11. K.Thilakavalli, D.Rajagopal, R.Jeevitha, "How OOA, OOD and UML Using in Software Development Process", International journal of u- and e-service, science and technology, Vol.10, No.1, 2017, PP: 243-256.

12. K. Thilakavalli, D. Rajagopal, R. Jeevitha, "Quality of Service Analysis for Cluster Based Routing Protocol in MANET", CiiT International Journal of Wireless Communication, Vol 9, No 2 (2017), PP: 34-37. (Impact Factor:1.250)

13. K.Thilakavalli, D.Rajagopal, "A Study: UML For OOA and OOD", International journal of knowledge content development and technology, vol.7, No.2, June 2017.

14. K. Thilakavalli, D. Rajagopal, R. Jeevitha, "A Study and Performance Analysis of TORA Routing Protocol in Vehicular Ad-hoc Networks", International Journal of Information Technology and Electrical Engineering, Vol 6, No 6, December 2017, PP: 1-6.

15. Mrs.K.Thilakavalli, Dr. R.Umadevi, Mr.D.Rajagopal, "A Study on Effective Online Data Mining Tools", International Journal of Information Technology and Electrical Engineering, Volume 8, Issue 6, December 2019, Pages: 21-26. **(UGC CARE B List).**

16. Mrs.K.Thilakavalli, Dr.A.Saraswathi,Mr.D.Rajagopal, "Cloud Based Novel Approach For Higher Educational Institutions Students Fees Management System", Advanced Engineering Services, Volume 55, Issue 02, December 2023, Pages: 637-642.

Skill Sets

➢ **Soft Skills**

- Operating System : DOS, Windows(98/2000/2003/XP/7)
- Programming Languages : C , C++ , VB6.0, java,.NET
- Web component : HTML, Net Beans
- Database Tools : ORACLE, SQL SERVER 2005, MS-ACCESS
- Big Data Tools : R Tool

➢ **Hardware Skills**

- System Assembling
- Trouble Shooting the Hardware

Subjects Handled

- Programming in C++
- Python Programming
- Linux and Shell Programming
- Software Testing
- Operating Systems
- Programming in Java
- PHP Scripting Language
- Data Structures
- Design and Analysis of Algorithms
- Big Data
- Middleware Technologies
- Internet & Java
- C# and .NET Framework
- Computer Graphics& Multimedia Systems
- Object Oriented Analysis and Design
- Software Engineering
- Object Oriented Programming
- Mongo DB

Curriculum Development

- **Designed course material and Lab Manual for the Following Subjects to M.C.A Students**

  ➢ C# and .NET Framework (Including Lab Manual)

- Design and Analysis of Algorithms(Including Lab Manual)
- Software Engineering(Including Lab Manual)
- Computer Graphics(Including Lab Manual)
- Object Oriented Analysis and Design(Including Lab Manual)
- Interactive Computer Graphics(Including Lab Manual)
- C Programming (Lab manual only)

Achievements

- **Produced 100% Result in "Programming in C++" for BCA** in the year 2013-2014 semester (III).
- **Produced 100% Result in "Computer Graphics & Multimedia" for MCA** in the year (2009 & 2010) semester (III).
- **Produced 100% Result in "Computer Graphics & Multimedia" for Computer Science and Engineering** in the year (2010) semester (VI).
- **Produced 100% Result in "Object Oriented Analysis and Design" for MCA** in the Year (2010) semester (IV).
- **Produced 100% Result in "Middleware Technologies" for MCA** in the year(2010) semester (V).
- **Produced 100% Result "Internet and Java" for Medical Electronics and Engineering** in the year (2010) semester (V).
- **Produced 100% Result in "Data Structures" for Computer Science and Engineering** in the year (2010) semester (III).
- **Produced 100% Result in "Design and Analysis of Algorithms" for MCA** in the year (2011) semester (II).
- **Produced 100% Result "Mongo DB" for BCA** in the year (2016) semester (V).
- **Produced 100% Result "Big Data" for BCA** in the year (2017) semester (VI).
- **Produced 100% Result in "Design and Analysis of Algorithms" for MCA** in the year (2017) semester (IV).

Co-Curricular Activities

- **Attended Various Faculty Development Programme on various colleges from 2021 to till date**
- Attended Faculty Development Programme on "Big Data Analytics" in Dr.G.R.Damodaran College of Science, Coimbatore.
- Attended Two Days CSIR Sponsored National Seminar on "BlockChain Technology: Application Domain & Research Challenges" in K.S.Rangasamy College of Technology.
- Attended One Day National Seminar on "**Tools and Techniques to do a research to improve scholarly Writing Skills**" in Karpagam University, Coimbatore.
- Attended One Day Workshop on "**Mobile Application using Android**" conducted by Accent Techno Soft, Coimbatore.

- Attended One Day National Level Workshop on "**Software Testing Tool – Selenium**" in Karpagam University, Coimbatore.
- Attended Two days Workshop on "**Information Society Opportunities in Open Source**" in K.S.R College of Engineering.
- Attended One Day National Seminar on "**Building and Management of e-Resources: Issues and Challenges**" in K.S.R Institute for Engineering and Technology.
- Attended One day workshop on "**MOBILE COMPUTING LAB**" in Sengunthar College of Engineering, Tiruchengode.
- Attended One day Workshop on "**Hands on Training 'NS/2' **" in The Kavery Engineering College, Tiruchengode.
- Attended Two Days Workshop on "**Research and Best Practices in Cloud Security**" in K.S.R College of Engineering.

Projects Guidance

- **16 Projects** were guided for **Final Year M.C.A Students**.
- **13 Mini Projects** were guided for **Pre-Final Year M.C.A Students**
- **2 Team Projects** were guided for **Final Year B.Sc(CS) Students**

Personal Details

- Name   : K.Thilakavalli.
- Date of Birth   : 19-09-1985
- Community   : BC
- Nationality   : Indian
- Permanent & Communication
  Address   : #206, Kombai Nagar, Salem Road,

                                   Tiruchengode, Namakkal Dt - 637 211.

                                                              (K.Thilakavalli)