

K.MAHESWARAN MCA, M.Phil, M. Sc., (Maths), SET, Ph. D

Assistant Professor in Computer Science,
St. Joseph's College (Autonomous),
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Career Objective

To establish myself in the field of Higher education and research, to utilize my skills and experiences to help students career and growth.

Academic Qualification

- Pursuing **Ph. D** in Computer Science from Bharathidasan University from October 2014
- Qualified for **State Eligibility Test for Lectureship (SET)** - 2012 conducted by Bharathiyar University, Coimbatore.
- **Master of Science in Mathematics (M. Sc.)** from **Bharathidasan University (CDE)**, Trichy.
- **Master of Philosophy (M.Phil) - Computer Science** from **Jamal Mohamed College (Autonomous)**, Trichy.
- **Master of Computer Applications (MCA)** from **St. Joseph's College (Autonomous)**, Trichy.
- **Bachelor of Science in Mathematics (B.Sc.)** from **St. Joseph's College (Autonomous)**, Trichy.
- **Higher Secondary Certificate (HSC)** from **St. Joseph's College Hr. Sec School**, Trichy.
- **Secondary School Leaving Certificate (SSLC)** from 2002 **St. Joseph's College Hr. Sec School**, Trichy.

Technical Skill

- Programming Skills** : C, C++, JAVA, ASP.NET, C#.NET, PHP
- Mathematical Skills** : Numerical Ability, Operations Research, Probability and Statistics, Graph Theory, Quantitative Aptitude
- Soft Skills** : Problem Solving, Time and Stress Management, etc.,

Area / Subjects of Interest

- Object-Oriented Programming
- Software Metrics and Cognitive aspects of Programming
- Graph and Automata theory
- .NET Technologies

Workshops / Conferences / Seminars / Training Program Attended

| S. No | Name of the Event | Date | Name of the University / College |
|-------|---|--|---|
| 1. | Workshop on Research Methodology in CS | 21 st & 22 nd Dec. 2010 | Jamal Mohammed College (Autonomous), Trichy |
| 2. | Orientation Programme for faculty members | 10 th and 11 th June 2011 | St. Joseph's College (Autonomous), Trichy |
| 3. | Orientation Programme for faculty members SJC | 13 th and 14 th June 2011 | St. Joseph's College (Autonomous), Trichy |
| 4. | National Conference on Advanced Computing | March 1 st , 2012 | Jamal Mohammed College (Autonomous), Trichy |
| 5. | Orientation Programme for Staff | 11 th -14 th June 2012 | St. Joseph's College (Autonomous), Trichy |
| 6. | Seminar on "Data Management on Cloud Computing Platforms" | 1 st Aug. 2012 | National Institute of Technology, Trichy |
| 7. | Soft Skills Training Programme | August – November 2012 | St. Joseph's College (Autonomous), Trichy |
| 8. | Workshop on Smart Devices Programming | 8 th Dec. 2012 | St. Joseph's College (Autonomous), Trichy |

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| 9. | 1 st International Conference - WCCCT | 27 th Feb. to 1 st March 2014 | St. Joseph's College (Autonomous), Trichy |
| 10. | Capacity Building WS on E-content Development between | 9 th – 12 th June 2015 | St. Joseph's College (Autonomous), Trichy |
| 11. | Workshop on Big data Analytics | 4 th & 5 th Jan. 2016 | St. Joseph's College (Autonomous), Trichy |
| 12. | National Conference on Higher Education in Knowledge | 24 th & 25 th Feb. 2016 | St. Joseph's College (Autonomous), Trichy |
| 13. | Faculty Orientation On Value Education | 17 th August 2016 | St. Joseph's College (Autonomous), Trichy |
| 14. | 2 nd International Conference - WCCCT | Feb. 2017 | St. Joseph's College (Autonomous), Trichy |
| 15 | International Conference on Smart Computing & Communications (ICSCC) | 7 th & 8 th Dec. 2017 | NIT Kurukshetra, Haryana |
| 16 | International Conference on Advances in Computer Science, Engineering and Technology (ICACSET) | 19 th & 20 th Jan. 2018 | Kalasalingam University, Krishnankoi, Virudhunagar |

Papers Presented / Published

1. Maheswaran K, Aloysius A, “Cognitive Weighted Inherited Class Complexity Metric”, Procedia Computer Science, Vol. 125, pp. 297-304, 2017.
2. Maheswaran K, Aloysius A, “A Heuristics on Interface Complexity”, International Journal of Advanced Research in Computer Engineering & Technology, Vol. 6, pp. 1283-1287, 2017.
3. Maheswaran K, Aloysius A, “An Analysis of Object Oriented Complexity Metrics”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol. 2, pp. 768-775, 2017.
4. Gayathri S, Maheswaran K, “A Software Cohesion Metrics-Survey”, International Journal of Advanced Engineering and Global Technology, Vol. 5, pp. 1929-1933, 2017.
5. Syed Tanzeel Rabani, Maheswaran K “Software Cognitive Complexity Metrics for OO Design: A Survey”, International Journal of Scientific Research in Science, Engineering and Technology, Vol. 3, pp. 691-698, 2017.

6. Rahul M, Maheswaran K, “Predicting Maintainability with Object-Oriented Metrics - An Empirical Comparison”, International Journal of Advanced Engineering and Global Technology, Vol. 5, pp.1642-1646, 2017.
7. Maheswaran K, Aloysius A, “A Survey on Complexity Metrics in Object Oriented Design”, SSICACR, 2017.
8. Maheswaran K and A Aloysius, “A Metric for Identifying incoming and outgoing interaction complexity of a component”, National Conference on Emerging Trends in Software Development, March 2016.
9. Maheswaran K and A Aloysius, "A Review on Component Based Software Metrics", International Journal of Fuzzy Mathematical Archive Vol. 7, No. 2, pp. 185-194, , Jan. 2015.
10. Maheswaran K “A Task Scheduling system for heterogeneous computing in grid environment”, National Conference on Advanced Computing, 2011.

Acted as a Resource Person

| Type of Programme | Title | Beneficiaries | Date |
|--------------------------------|--|---|------------|
| Orientation Programme | Computer Literacy (Chapt: 2: Applications of Computer) | Staff handling Computer Literacy St.Josephs College | 2013-12-06 |
| Soft Skills Training Programme | Resume Writing and Interview skills | III BBA Students St Josephs College | 2014-02-11 |
| Training / Coaching Program | NET / SET Exam Training in Computer Science | Professors - Organized by ACME Academy, Trichy | 2015-07-02 |
| Special Lecture | NET / SET Training in Computer Science | Scholars, Dept. of CS, Alagappa University, Karaikudi | 2017-01-06 |
| Special Lecture | Success through Programming | Aimman College for Women, Trichy | 2018-08-06 |

Academic Post

- Member of Micro Quality Assurance Cell (MQAC) for Department of Computer Science, St. Joseph's College (Autonomous) Trichy-620002 between August 2012 to Till date.
- Vice President for Computer Science Association, Department of Computer Science, St. Joseph's College (Autonomous), Trichy-620002 between June 2015 to April 2016

Publications of Book (s)

| Book Title | Publisher | Year |
|-------------------------------|---------------------------|------|
| Computer Literacy (Chapter 2) | St Josephs College Trichy | 2013 |

Project / Thesis Guided

Under graduate : 28

Post graduate : 39

M. Phil : 10 (Details given in the following Table)

| D. NO | Scholar Name | Title of the thesis |
|----------|----------------|---|
| 14MCS137 | R. Kowsalya | An Interaction Complexity Measure for Component Based Software |
| 14MCS122 | P. Kavitha | An Inheritance Complexity Metric for Object Oriented Code |
| 14MCS126 | R. Ranjani | A Novel Metrics for Calculating Effort in Reusable Components |
| 13MCS137 | Soosai Raj | A Complexity Metric for Component Based Software |
| 15MCS103 | A. Raja Prabhu | An Improved Complexity Metrics for Component Based System using Dependency And Interaction |
| 15MCS108 | M. Ragul | Predicting Maintainability of Object Oriented Programming using Class And Hierarchy Level DIT |

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|----------|---------------------|---|
| 15MCS137 | J. Balasundari | An Improved Cyclomatic Complexity Metrics of Component Based System For Reusability |
| 16MCS122 | Syed Tanzeel Rabani | An Improved Cognitive Class Complexity Measure Due To Inheritance |
| 16MCS120 | S. Gayathri | A Temporal Cohesion Metric For Object Oriented Design |
| 16MCS117 | Satiya Priya | Advanced Search Engine Optimization Technique Using Decentralized Clustering Approach |

Other Details

- Approved research Advisor for M.Phil (CS) by Bhrathidasan University.
- Qualification is Approved by Bhrathidasan University.
- Approved Examiner for UG Theory and Practical exams of Bhrathidasan University.
- Acted as a Resource Person in reputed Institutions / Academy for training the students for competitive exams like IIT-Main and Advanced, IBPS, etc.

Personal Profile

- Languages Known : Tamil, English
- Nationality : Indian
- Personal Traits : Young, energetic, Optimist, Persistent
- Year of Experience : U.G – 9 yrs. P.G - 9 yrs. & M.Phil- 6 yrs.

(K. Maheswaran)