Dr. K. MAHESWARAN MCA, M. Phil, M. Sc., (Maths), SET, Ph. D
Assistant Professor in Computer Science,
St. Joseph's College (Autonomous),
Tiruchirappalli   620002, Tamilnadu, India.
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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

- **Ph. D** in Computer Science from Bharathidasan University -2019.

- Qualified for **State Eligibility Test for Lectureship (SET)** - 2012 conducted by Bharathiyar University, Coimbatore.

- **Master of Science in Mathematics (M. Sc.)** from **Bharathidasan University,** 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.

Technical Skill

Programming Skills	:	C, C++, JAVA, PYTHON, 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

Number of Workshops / Conferences / Seminars / FDP Attended : 25

Papers Presented / Published

1. K. Maheswaran et al., "Robust Fingerprint Minutiae Extraction and Matching using Improved AKAZE", Second International IEEE Conference on Data Science and Information System (ICDSIS), July 2024.

2. Maheswaran K, "Empirical Validation of CWICC and ICWCC Metrics using Maintenance Effort Estimation Model", Mukt Shabd Journal, Volume IX, Issue XII, December, 2020.

3. Maheswaran K, "Theoretical Validation of the Cognitive Complexity Metrics CWICC and CWCC", Proceedings of International Conference on Advances in IoT, High Performance and Edge Computing, Global Technology Forum, ISBN: 978-81-937760-7-0, October, 2020.

4. Maheswaran K, Preethijeralinhilda A, "Maintainability Index Computation Based on Cyclomatic Complexity and Halstead Measure for Python", Mukt Shabd Journal, Volume IX, Issue X, October 2020.

5. Maheswaran K, Aloysius A, "Empirical Validation Of Object Oriented Cognitive Complexity Metrics Using Maintenance Effort Prediction", International Journal of Scientific Research in Computer Science Applications and Management Studies, Vol. 7, Issue 4, pp. 1-6, 2018.

6. Maheswaran K, Aloysius A, "An interface based cognitive weighted class complexity measure for object oriented design", International Journal of Pure and Applied Mathematics, Vol. 118, No. 18 2018, pp. 2771-2778, , 2017.

7. Maheswaran K, Aloysius A, "Cognitive Weighted Inherited Class Complexity Metric", Procedia Computer Science, Vol. 125, pp. 297-304, 2017.

8. Maheswaran K, Aloysius A, "A Heuristics on Interface Complexity", International Journal of Advanced Research in Computer Engineering & Technology, Vol. 6, pp.1283-1287,2017.

9. 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.

10. Gayathri S, Maheswaran K, "A Software Cohesion Metrics-Survey", International Journal of Advanced Engineering and Global Technology, Vol. 5, pp. 1929-1933, 2017.

11. 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.

12. 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.

13. Maheswaran K, Aloysius A, "A Review on Component Based Software Metrics", International Journal of Fuzzy Mathematical Archive Vol. 7, No. 2, pp. 185-194, Jan. 2015.

Acted as a Resource Person

Type of Programme	Title	Beneficiaries	Date
Orientation Programme	Computer Literacy (Chapter: 2: Applications of Computer)	Staff handling Computer Literacy St. Joseph's College	2013-12-06
Soft Skills Training Programme	Resume Writing and Interview skills	III BBA Students St. Joseph's 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

Special Lecture	ASP.NET	B.Sc CS and MCA Students, SJC, Trichy	2019-10-03
Training / Coaching Program	NET Training for Paper-1	Students and Scholars, Dept. of Economics, SJC, Trichy	2019-10-16
Special Lecture	Research Methodology	Dept. of CS, Holy Cross College, Trichy	2020-01-07
Special Lecture	Resume Writing	Dept. of CS, JJ College of Arts and Science, Pudukottai	2022-07-12
Adjunct Faculty	Python Programming	Dept. of CS, PSGR Krishnammal College for women, Coimbatore	2023-02-14
Special Lecture about JCICT	Induction Programme	I UG Student of SJC	2022-07-28 2023-06-27 2024-06-25

Academic Post / Position

- Organising Member of International Conference on the Impact of Disruptive Technologies (ICIDT) held on 8th and 9th January 2024.

- Coordinator of the Value Added Course "**Data Analysis using Python"** from February February 2021 to November 2023 and completed 7-Batches.

- **President** of Computer Science Association, Department of Computer Science, St. Joseph's College (Autonomous), Trichy-620002 between June 2019 to April 2020.

- Acted as a **Course Coordinator** and organize two courses namely Data Analysis and Numerical Ability, Core Python Programming under DBT –STAR Scheme between November 2019 to February 2020.

- **Member of Micro Quality Assurance Cell** (MQAC) for Department of Computer Science, St. Joseph's College (Autonomous), Trichy-620002 and Worked for getting A++ in NAAC 4th Cycle of Accreditation between August 2012 to July 2019.

- **Organizing Secretary** of state level technical symposium 'COMTECH 2K16' held on 19th February 2016.

- **Vice President** for Computer Science Association, Department of Computer Science, St. Joseph's College (Autonomous), Trichy-620002 between June 2015 to April 2016.

Awards Received

- Received "*International Best Researcher in Computer Science***"** award by IJRULA in association with World Research Council, USA on January 2020.

Publications of Book (s)/ Chapter(s) / Patent

Book Title	Publisher	Year
Computer Literacy (Chapter 2)	St Joseph's College, Trichy	2013
Fundamentals of Computing and Programming	RK Publication ISBN:978-93-95331-27	2022
NME: Office Automation (Chapter 3,5)	St Joseph's College, Trichy	2024

Patent Title: *Machine Learning and Image Processing Based Smart Prediction of Human Emotions and Character*. **Date of Publication:** 13/08/2021.

MOOC Course Completed

- Completed the **NPTEL** online Certification Course, "**Python for Data Science"** between November 2020 to February 2021.

Value Added / Certificate course Organized

- Acted as a Course Coordinator of Value Added Course "*Data Analysis using Python*" for 7-Batches from February 2021 to November 2023. There are 303 UG and PG Students successfully completed / benefited the course.
- Acted as Coordinator of Certificate Course: "**Coding for Beginners**" from January 2024 to April 2024.

Other Details

o Approved Research Advisor for M.Phil (CS) by Bharathidasan University.
o Got Qualification Approval from Bharathidasan University.
o Approved Examiner for UG Theory and Practical exams of Bharathidasan University.
o Trainer - Soft Skill Trained by Joseph Academy of Soft Skills (JASS).
o Acted as a Resource Person in reputed Institutions / Academy for training the students for competitive exams like IIT-JEE, SET/ NET, IBPS, TNPSC, RRB, etc.

Project / Thesis Guided

Under graduate   : 50+
Post graduate   : 58+
M. Phil   : 13 (details given in the following table)

S. No	D. NO	Scholar Name	Title of the thesis	Year of Award
1	13MCS137	Soosai Raj	A Complexity Metric for Component Based Software	September 2014
2	14MCS137	R. Kowsalya	An Interaction Complexity Measure for Component Based Software	September 2015
3	14MCS122	P. Kavitha	An Inheritance Complexity Metric for Object Oriented Code	September 2015
4	14MCS126	R. Ranjani	A Novel Metrics for Calculating Effort in Reusable Component	September 2015
5	15MCS103	A. Raja Prabhu	An Improved Complexity Metrics for Component Based System using Dependency And Interaction	September 2016
6	15MCS108	M. Ragul	Predicting Maintainability of Object Oriented Programming using Class And Hierarchy Level DIT	September 2016
7	15MCS137	J. Balasundari	An Improved Cyclomatic Complexity Metrics of Component Based System for Reusability	September 2016
8	16MCS122	Syed Tanzeel Rabani	An Improved Cognitive Class Complexity Measure due to Inheritance	September 2017
9	16MCS120	S. Gayathri	A Temporal Cohesion Metric for Object Oriented Design	September 2017
10	16MCS117	Satiya Priya	Advanced Search Engine Optimization Technique using Decentralized Clustering Approach	September 2017
11	17MCS123	P. Lincy Adaikala Jothy	Identify the Peoples Involved in Social Media Discussion using an Improved Feature based K-Means Clustering	September 2018
12	17MCS107	J Johnsy	A Study On Various Cognitive Complexity Metrics	September 2018
13	19MCS105	Preethi jeralinhilda	Maintainability Index Computation Based on Cyclomatic Complexity and Halstead Measure for Python	September 2020

Personal Profile

- Languages Known   :   Tamil, English
- Nationality   :   Indian
- Personal Traits   :   Young, energetic, Optimist, Persistent
- Year of Experience   :   U.G – 14+ yrs. P.G - 14 +yrs. & M. Phil- 8 yrs.

(K. Maheswaran)