Profile

Dr.N.Karpagavalli
Assistant Professor

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Date of Birth   : 23rd May 1965
Nationality   : Indian
Educational Qualification : B.Com., PGDCS, M.C.A, M.Phil., Ph.D.
Residential Address   : 85, Third Cross, Ponnagar.
                                          Tiruchirappalli – 620 001.
Official Address   : Department of Computer Applications,
                                          Holy Cross College (Autonomous),
                                          Tiruchirappalli – 620 002.

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1. Professional Summary

➢ Software Developer and IT Supporting Service for the Administrative Staffs from the year 1991 to until date
➢ Subjects handled for the MCA., BCA, Allied Papers for UG and Non Major Elective Papers for UG and PG
➢ Subjects handled for the M.Sc. CS. and M.Sc. IT CDE Courses of Bharathidasan University

2. Qualification – Ph. D in Computer Science

3. Experience

➢ Working as Assistant Professor and System Administrator in Department of Computer Science in Holy Cross College, Tiruchirappalli from 1991 to until academic year 2017
➢ Working as Assistant Professor in Department of Computer Science in Holy Cross College, Tiruchirappalli from 1991 to till date

4. Education

S. No.	Degree / Diploma	Subject / Main	Year of Completion	Name of the College / University
1.	10th / S.S.L.C.	--	1981	HOLY CROSS GIRLS HIGHER SECONDARY SCHOOL, TIRUCHIRAPPALLI
2.	+2 / 12th Standard / H.S.C.	--	1983	SAVITRI VIDYASALA HINDU GIRLS HIGHER SECONDARY SCHOOL, TIRUCHIRAPPALLI
3.	U.G.	COMMERCE	1987	SEETHALAKSHMI RAMASWAMI COLLEGE, TIRUCHIRAPPALLI
4.	P.G.	COMPUTER APPLICATIONS	2002	BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI
5.	M.Phil.	COMPUTER SCIENCE	2005	BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI
6.	Ph.D.	COMPUTER SCIENCE	2018	MOTHER TERESA WOMEN'S UNIVERSITY, KODAIKANAL

Technical qualification

S. No.	Degree / Diploma	Subject / Main	Year of Completion	Name of the Computer Center
1.	P.G.D.C.S	COMPUTER SCIENCE	1988	JKK COMPUTER CENTRE, TIRUCHIRAPPALLI

5. **Subjects of Expertise**
   - Programming Languages: C, C++, Advanced Java; ASP, PHP, Visual Programming, Python and R
   - Data Structure and Algorithms
   - Database Management System
   - Computer Networks
   - Dot Net Technologies
   - Web Application Development
   - Web Technologies
   - Cloud Computing with Weka Tools
   - Big Data Analytics
   - Distributed Technologies
   - Basic Concepts of Programming
   - Introduction to Python
   - Computer Applications in Business
   - Office Tools
   - Data Analysis and Visualization using R
   - Business Data Analytics using R Programming

6. **Core Competencies**
   - System Administrator until academic year 2017
   - Software Developed : Admission Processing System and Students Information System
   - Software Maintenance: Staff Pay Bill Preparation and Income Tax Calculation

7. **Leadership Profile**
   - Computer Training Center: Organizer and Staff In-charge for the P.G.D.C.P, Certificate Course and D.C.P. Courses from the year 1991 to 2000
   - Software Technical Support for the Admission Committee from the year 1998 to 2011
   - Head of the Department from 2012 to 2015
   - Organizing Secretary in a State Level Workshop
   - Organizing Secretary in a National Conference
   - Organizing Secretary in a National Seminar
   - Convener in a National Seminar
   - Technical Core Member for ICNRI '2018
   - Act as a Class Teacher
   - Organizer for the Departmental Events
   - Resource Person in Webinar Series on the topic "The C++ Standard Template Library (STL)", through Google Meet at Dhanalakshmi Srinivasan College of Arts & Science For Women (Autonomous), Perambalur - 621 212 on 08.06.2020.
   - Resource Person in Webinar Series on the topic "An Overview of PHP", through Google Meet at Dhanalakshmi Srinivasan College of Arts & Science For Women (Autonomous), Perambalur - 621 212 on 10.06.2020.
   - Resource Person in Webinar Lecture on "An Exposure in Multi Paradigm Language – Python", through Google Meet at National College (Autonomous), Tiruchirappalli-620 001, on 16.10.2020.
   - Resource Person for the Two day Workshop on "R Programming" at National College (Autonomous), Tiruchirappalli-620 001, on 03rd and 4th, January 2023.
   - Initiated Computer Literacy Programme for the 25 adopted villages in 25 days

8. **Research Profile**
   Publications
   - International Journals : 7
   - International Conference : 4

   Paper Presentations
   - National Conference : 15
   - International Conference : 14

   Participations
   - International Seminar : 2
   - International Conference : 8

National Conference	: 16
International Seminar – Offline 4; Online 1	: 5
National Seminar	: 4
International Workshop – Online 1	: 1
National Workshop – Offline 3; Online 3	: 6
State Workshop – Offline 3; Online 10	: 13

Guest Participations

State level Symposium-Acted as Judge for Events	: 2
Technical Workshop-Resource Person for the Session	: 2

Organizing Secretary in International Conference	: 2
Organizing Secretary in National Conference	: 1
Organizing Secretary in National Seminar	: 1

9. **Member in Various bodies**

In the College / Department
- Member in Academic Council from 2012 to 2015
- Member in Board of Studies
- Member in AICTE – MCA Course
- Member in NAAC Core Committee
- Bursar in Staff Club
- Organizing Member in International Conference ICNRI'18 (International Conference on Networking, Research and Innovation in Higher Education : Challenges and Channels)
- Organizer Webinar Series in Mastering to Write Own Program Coding in C++ - 2020
- Organizing Member of Intradepartmental Competition from 2001 onwards
- Organizing Member of Interdepartmental Competition from 2001 onwards
- NTA – Nodal Officer from 2018 to 2021
- E-content – Department In-charge from 2018 onwards
- Result Analysis - Coordinated Technical Team from 2007 to 2022
- SWAYAM – Department In-charge from 2019 onwards
- Organizing Secretary in a International Conference on "Futuristic Trends in Computational Sciences" ICFTCS-2023

In Bharathidasan University
- Examiner of U. G. Courses from 2005 onwards
- Chairman of U. G. Courses from 2007 onwards

In Various Colleges
- Examiner and Question Paper Setter for the UG and PG Courses
- End Semester Question Paper Scrutinizer for UG and PG Programmes

10. **Key Achievements**
- Successfully participated & completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Integrated Data Analytics - the Tools and Applications around Industry Verticals" from 2021-07-05 to 2021-07-09 at Holy Cross College(Autonomous), Tiruchirappalli – 620 002.
- Participated in 5 Day Faculty Development Program on Microsoft Azure AI Engineer Associate, ICT Academy from 09.05.2022 to 13.05.2022.
- Recognition Received from Holy Angel Nursery & Primary School, Tiruchirappalli – 620 102. Contribution to the Rural Poor and promoting Computer related Skills for Rural Children and Children with Disabilities - From 2016 Onwards,
  - Syllabus Advisor for the Primary School Children and for Children with Disabilities.
  - Designed a Syllabus for a 200 hours Training Course on Computer Basics to the Rural Tamil Medium Schools.
  - Guided Teachers on "How to utilize the Innovative Digital Tools" to develop Teaching Materials.
- Trainer for the Internship Training on Python Programming Department of Mathematics, Jamal Mohamed College, Tiruchirappalli.
- Subject Expert in the Board of Studies Meeting Department of Computer Applications, National College(Autonomous), Tiruchirappalli, on 06th March 2022
- Resource Person for the Two day Workshop on "R Programming", National College (Autonomous), Tiruchirappalli – 620 00, 03rd and 4th January 2023
- Invited Talk on Skill Development - Data Science using Python, Theivanai Ammal College for Women (Autonomous), Villupuram on 18th March 2023.

11. **Software Developed**

- The Staff Paybill Processing System underwent software program upgrade and Y2K problem resolution from 1999 to 2000.
- The Staff Paybill Processing System had maintained from 2001 to 2011.
- Upkeep for the Income Tax software since 2000.
- Software for the Admissions Processing System had developed in the years 2001 and 2002.
- The Student Information System's software had developed in 2002–2003 and maintained from that year through 2015.
- Students' Feed Back Processing software was developed during 2002 – 2007.
- Result Analysis is being done from 2007 – 2022.