PROFILE : Dr. K. Menaka M. Sc. M. Phil. PGDBM., Ph.D.(CS)., SET.,

Assistant Professor
Departments of Computer Science, Information Technology & Applications
Shrimati Indira Gandhi College
Tiruchirappalli – 2.
E- mail : kmenakasigc@gmail.com

EDUCATIONAL QUALIFICATION:

Qualification	Name Of the Institution	Year of Passing	% Of Mark
Ph. D.	Shrimati Indira Gandhi College, Trichy	2015	-
M. Phil.	Shrimati Indira Gandhi College, Trichy	2005	83%
PGDBM.,	Alagappa University	2003	75%
M. Sc.	A.V.C. College, Mayiladuthurai	2002	83.5%
B. Sc.	A.V.C. College, Mayiladuthurai	2000	84.2%

EXPERIENCE DETAILS

Year	Institution Name
2002-2003	D.G.G.A. College, Mayiladuthurai as Guest Lecturer
2005-2006	Programmer, Shrimati Indira Gandhi College
2006-Till Date	Assistant Professor, Department of Computer Science, Shrimati Indira Gandhi College

PERSONAL PROFILE

Name	:	**Dr. K. Menaka**
Educational Qualification	:	**M.Sc.,M.Phil.,PGDBM.,Ph.D.(CS)., SET.,**
Nationality	:	**Indian**
Date of Birth	:	**27.02.1980**
Sex	:	**Female**
Religion	:	**Hindu**
Marital Status	:	**Married**

Participation in Seminar/Conference Proceedings

Sl. No.	Name of the Conference	Year
1.	Participated in a One-Day workshop on "ANDROID DEVELOPMENT" at BUTP, Tiruchirappalli	2016
2.	Participated in A One -Day Inter-Collegiate Workshop on "E-CONTENT DEVELOPMENT FOR TEACHING –LEARNING PROCESS" at Jamal Mohammed College, Tiruchirappalli.	2015
3.	Participated in the National conference on "RECENT TRENDS IN ENGINEERING AND TECHNOLOGY" organized by Sri Raja Rajan College of Engineering and Technology", Karaikudi on 4th February.	2013
4.	Third Inco-US Lecture Series on "DISCRETE MATHEMATICAL CHEMISTRY : SPECIAL LECTURES ON BIOINFORMATICS AND CHEMOINFORMATICS" Organized by Department of Bioinformatics, Bharathidasan University, Tiruchirapalli.	2008

Presentations in Seminar/Conference Proceedings

Sl. No.	Title of Paper	Name of the Conference	Page No.	Year
1.	IMPACT OF BIOLOGICAL DNA SEQUENCES IN AUGMENTING CYBER SECURITY	International Conference on "Challenges and Response of Organization during Turbulent Global Business Environment" organized by Primax Foundation during 4th June 2019 at Singapore. ISSN No. 2394-2886	25 - 28	2019
2.	COGNITION IMPROVED NEURAL NETWORK SCHEME FOR DETECTING RARE MOTIFS IN DNA SEQUENCES	International Conference on Intelligent Computing Applications, ICICA 2014 held during March 6 - 7, 2014 in Bharathiar University. Published in IEEE Xplore – Digital Library ISBN-13: 978-1-4799-3966-4	18-21	2014
3.	MESSAGE ENCRYPTION USING DNA SEQUENCES	International conference on "World Congress on Computing and Communicating Technology", WCCCT'14 held during February 27th to March 1st 2014 at St. Joseph's College, Trichy Published in IEEE Xplore – Digital Library **Print ISBN:** 978-1-4799-2876-7	182-184	2014
4.	CLOUD COMPUTING – APPLICATIONS IN BIOINFORMATICS	National symposium on Cloud Computing organized by Bharathidasan University in association with Shrimati Indira Gandhi College and CSI Trichy chapter during 27th Sep. 2012	-	2012
5.	FORTIFIED INFORMATION ENCRYPTION WITH BIOLOGICAL SEQUENCE DATA	DST Sponsored National conference on Applications of Data Mining on National Security organized by Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, Enathur, Kanchipuram during 30th and 31st August, 2010. **ISBN:978-93-8697-51-2**	76-81	2010
6.	AN ARTIFICIAL NEURAL NETWORK DESIGN FOR DETECTING RARE EVENTS IN DNA SEQUENCES	International Conference on "Recent Trends in Computing and Communication" organised by Dhanalakshmi Srinivasan College(W), Perambalur, 27th Feb. 2010.	64-70	2010
7.	A NOVEL SEQUENCE ENCODING METHOD FOR SEARCHING RARENESS AMONG CONSENSUS DNA SEQUENCES	National Workshop sponsored by Department of Biotechnology (DBT) on Structural and Functional Genomics – an Insilico Approach held at Sub Distributed Information Centre (SUB DIC), Central Agricultural Research Institute (CARI), Port Blair, Andaman & Nicobar Islands during 26-28 February	54-60	2009
8.	A COMPUTATIONAL TOOL FOR QUANTITATIVE COMPARISON OF	National Conference on Bioinformatic Tools for Gene and Protein Analysis at Shrimati Indira Gandhi College, Tiruchirappalli-2 during 7-8 September	33-37	2007

Sl. No.	Title of Paper	Name of the Journal	Volume	Page No.	Year
	RELATEDNESS OF TWO DNA SEQUENCES				
9.	SEQUENCE ANALYSIS- AN APPROACH USING FINITE DIFFERENCES	State Level Seminar on Computer oriented mathematical Techniques 2007 (SLSCOMT-2007) at Shrimati Indira Gandhi College, Tiruchirappalli-2 during 10-11 August	19-25		2007

Publications in Scientific Journals

Sl. No.	Title of Paper	Name of the Journal	Volume	Page No.	Year
1	PREDICTING THE BIRTH OF HEALTHY BABIES WITH GESTATION PERIOD OBSERVATIONS USINGMACHINELEARNING ALGORITHM	INTERNATIONAL JOURNAL OF COMPUTER SCIENCES AND ENGINEERING	Vol. 7, Issue 3	271 - 275	2019
2.	A HYBRID CRYPTOGRAPHIC ALGORITHM BASED ON MATRIX ALGEBRA USING DNA SEQUENCES AND S-BOXES	INTERNATIONAL JOURNAL OF RESEARCH IN ELECTRONICS AND COMPUTER ENGINEERING ISSN: 2348-2281	VOL. 7 ISSUE 1	pp. 530 - 533	2019
3.	ENCRYPTING INFORMATION USING DNA SEQUENCES WITH MATRIX ALGEBRA	INTERNATIONAL JOURNAL OF RESEARCH IN ELECTRONICS AND COMPUTER ENGINEERING ISSN: 2348-2281	VOL. 6 ISSUE 3	pp. 1586-1590	2018
4.	ENHANCING INFORMATION ENCRYPTION WITH BIOMOLECULARSEQUENCES USING NDES ALGORITHM	International Journal of Advanced Research in Computer Science ISSN No. 0976-5697	Volume 8, No. 9,	482-485	2017
5.	A NEW APPROACH TO DNA CRYPTOGRAPHY USING 8X8 PLAYFAIR CIPHER AND RAMANUJAM SQUARE MATRIX	International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2013): 6.14	Impact Factor (2015): 6.391	Volume 5 Issue 8,	444-446	2016
6.	SECURE MESSAGE TRANSFER USING DNA SEQUENCES	International Journal of Computational Intelligence in Bioinformatics ISSN: 0973-385X	Vol. 9, No.1	1-6	2016
7.	COGNITION ENHANCED ANN MODEL	Advances in	Vol. 6,	33-45	2013

	FOR THE DETECTION OF RARE EVENTS IN DNA REPEAT SEQUENCES	Computation Sciences and Technology ISSN 0974-4738	No.1		
8.	MATHEMATICAL LENSING OF DNA REPEAT SEQUENCES	International Journal of Computational Intelligence in Bioinformatics ISSN: 0973-385X	Vol. 3 No. 3	257 - 265	2010
9.	A STATISTICAL METHOD FOR VERIFICATION OF RARENESS IN DNA SEQUENCES USING SEQUENCE ENCODING	Online Journal of Bioinformatics ISSN 1443-2250	10 (1)	74-81	2009

Participation in Orientation/Refresher/Training/ Faculty Development Programmes

Sl. No.	Name of the Conference	Year
1.	Participated in two days National Level Workshop on "NAAC Awareness Programme" conducted by Primax Foundation at Bangalore	2019
2.	Attended a Faculty Development Programme on "CLOUD INFRASTRUCTURE AND SERVICES" Organized by ICTACT at K.Ramakrishnan Collge of Engineering, Tiruchirappalli	2016
3.	Attended a training programme on Android OS at SIGC, Trichy.	2013
4.	Attended an Orientation Programme at Kajamalai Campus, Bharathidasan University.	2012
5.	Attended a skill based Training Programme on Multicore Programme Organized by ICT Academy.	2011
6.	Attended a training programme on .Net at SIGC, Trichy	2010

Other Details:

Qualified State Eligibility Test (SET) 2016 conducted by Mother Terasa University during February 2016.

M. Phil Guideship details

S.No.	Name of the Student	Reg. No.	Year & FT/PT	Project Title
1.	B. VIGNESWARI	2K15FT-43283	2015 FT	A NOVEL APPROACH FOE EFFECTIVE SEARCH ON GRAPHS WITH WEIGHTED ATTRIBUTES.
2.	R. RAMYA	2K15PT-44732	2015 PT	PERIODICAL HEALTH CHECK-UP IN POST – DISASTER CONDITION USING MOBILE HEALTH CARE METHODS.
3.	A.KARTHIKA	2K16FT-16556	2016FT	TIME DELAYED BROADCASTING FOR DEFEATING RE-ACTIVE JAMMER USING 3DES ALGORTHM AND LINEAR TIME SERIES TECHNIQUES
4.	P. BAVANI	2K16PT 17871	2016PT	A WEB-BASED SMS ALERT SYSTEM TO FACILITATE STUDENT SUPPORT SERVICES
5	PRIYA R	2K17FT-18535	2017FT	ISOLATED POSITIVE AND PRECISE SPECTRAL CLUSTERING WITH OPTIMIZED SOLUTION
6.	SUNDARAVALLI V	2K17FT-18545	2017FT	A NOVEL APPROACH FOR ENHANCING INFORMATION ENCRYPTION USING BIOMOLECULAR SEQUENCES
7.	ARTHI V	2K17PT 19787	2017PT	AN ANALYSIS OF DETECTING RANK FRAUD & MALWARE PRACTICES USING DATAMINING TECHNIQUES
8.	KEERTHANA KANI B	2K18FT 20415	2018FT	PREDICTING THE BIRTH OF HEALTHY BABIES WITH GESTATION PERIOD OBSERVATIONS USING MACHINE LEARNING ALGORITHMS
9.	VISHALINI M	2K18FT 20429	2018FT	A HYBRID CRYPTOGRAPHIC SYSTEM BASED ON MATRIX ALGEBRA USING DNA SEQUENCES AND S-BOXES