

FACULTY PROFILE



Name : NISHA SOMS
Designation : ASSISTANT PROFESSOR (SENIOR GRADE)
Email ID : nishasoms.cse@srit.org

Area of Specialization : Wireless Ad Hoc Networks, Mobile Computing
Cryptography and Network Security

Total Experience : Academic : 7 years 5 months
Industry : NIL

Educational Qualification:

Degree	Branch / Specialization	College	University
M.E.	CSE	SONA COLLEGE OF TECHNOLOGY	ANNA UNIVERSITY
B.E.	CSE	ARULMIGU KALASALINGAM COLLEGE OF ENGINEERING	MADURAI KAMARAJ UNIVERSITY

Experience Details:

S.No	Institution/Industry	Design.	Experience		Total Years & Months
			From	To	
1	SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY	ASSISTANT PROFESSOR (SENIOR GRADE)	01.10.2014	Till date	1 year 8 months
		ASSISTANT PROFESSOR	01.08.2010	30.09.2014	4 year 2 months
		LECTURER	04.12.2008	31.07.2010	1 year 7 months
Total (as on July 2016)					7 Years 5 Months

Publications :

Journals :

2015 – 2016

1. **Nisha Soms et.al** , “Securing MANETs using Cooperative Bait Detection System”, International Journal of Advanced Research Trends in Engineering and Technology, Volume 3, Special Issue 2, pp. 1332-1337, March 2016.

2014 – 2015

2. **Nisha Soms et.al** , “Application of Os-PCA Algorithm in Identifying Intrusions”, International Journal of Applied Engineering Research, Volume 10 Special Issue, Research India Publications, pp. 4028-4032, 2015.
3. **Nisha Soms et.al**, “Protection of MANETs from a range of attacks using a modified Zone Based Intrusion Detection System”, SSRG International Journal of Computer Science and Engineering, SSRG Publishers, pp48-55 IJCSE –Special Issue, 2015

2013 – 2014

4. **Shibu N.V , Oswalt Manoj S and Nisha Soms**, “The Secured Mobile Purse - A Mobile Banking Initiative”, International Journal of Research in Computer Engineering & Electronics Volume 3, Issue 5, 2014.

2011– 2012

5. **Oswalt Manoj S and Nisha Soms**, “Visual Architecture Based Web Information Extraction”, Bonfringe International Journal of Data Mining, Volume 1, Special Issue, December 2011

International Conferences:

2015 – 2016

1. **Nisha Soms et.al**, “Securing MANETs using Cooperative Bait Detection System”, in Proceedings of ISTE & JETE Sponsored International Conference on Research Advances in Communication, Computation, Electrical Science and Structures, March 12 2016
2. **Nisha Soms et.al**, “A Survey On Novel Approaches For Detecting Collaborative Attacks In MANETs”, in Proceedings of International Conference on Green, Intelligent Computing And Communication Systems, January 11 2016
3. **Nisha Soms et.al**, “Certain Investigations on Securing the OLSR Protocol against Compound Attacks”, in Proceedings of IEEE International Conference on Computing Technologies and Intelligent Data Engineering, January 7-9 2016

2014 – 2015

4. **Nisha Soms et.al**, “A Comprehensive Performance Analysis of Zone Based Intrusion Detection System in Mobile Ad hoc Networks”, in Proceedings of 3rd IEEE International Conference on Signal Processing, Communication and Networking (ICSCN) in Madras Institute of Technology, Chennai, March 26-28 2015
5. **Nisha Soms et.al**, “A Review on Taxonomy of Routing Attacks in Mobile Ad hoc Networks”, in Proceedings of IEEE International Conference on Engineering and Technology (ICETECH'15) in Rathinam Technical Campus, Coimbatore, March 20 2015
6. **Nisha Soms et.al**, “Application of os-PCA Algorithm in Identifying Intrusions”, in Proceedings of International Conference on Advancements in Computing, Power and Control ICACPC 2015 in Christian College of Engineering and Technology, Dindigul, Feb 24-26 2015

2011 – 2012

7. **Nisha Soms et.al**, “Bypassing Beacon Interval for Improving Route Discovery in MANET using Random Cast as Energy Saving Scheme”, in Proceedings of International Conference on Innovations in Computers, Information and Communications 2012 in PSG College of Technology, Coimbatore, January 5-7 2012
8. **Nisha Soms et.al**, “Fast Wakeup Mechanism for Route Discovery in Multihop Mobile Ad hoc Networks (MANET) which uses Random Cast as Energy Saving Scheme”, in Proceedings of International Conference on Research symposium on Pervasive Computing and Its Underlying Technologies 2011 in Velammal Engineering College, Chennai, September 15-16 2011

National Conferences:**2014– 2015**

1. **Nisha Soms et.al**, “A Review on Support Vector Machine: A Classification Method”, in Proceedings of National Conference on Recent Advances in Design, Automation and Intelligent Systems 2015 in Dr.N.G.P. Institute of Technology, Coimbatore, March 27 2015
2. **Nisha Soms et.al**, “Protection of MANETs from a range of attacks using a modified Zone Based Intrusion Detection System”, in Proceedings of National Conference on Research Advances in Communication, Computation, Electrical Science and Structures 2015 in Bharathiyar Institute of Engineering for Women, Salem, Feb 21 2015.

2013– 2014

3. **Nisha Soms et.al**, “False Positive Reduction in Intrusion Detection System of MANETs – A Review”, in Proceedings of National Conference on Advanced Trends in Information and Computing Sciences 2014 in Kumaraguru College of Technology, Coimbatore, April 4 2014
4. **Nisha Soms and P.Malathi**, “An Analysis on Acknowledgement Based Intrusion Detection Systems in MANETs”, in Proceedings of Fourth National Conference on Communication, Computation, Control and Automation 2014 in Sri Ramakrishna Institute of Technology, Coimbatore, March 28 and 29 2014

2011 – 2013

5. **Nisha Soms and P.Malathi**, “A Review of Work done in Intrusion Detection Systems on Smart Grids”, in Proceedings of National Conference on Research Advances in Communication, Computation, Electrical Science and Structures 2013 in Bharathiyar Institute of Engineering for Women, Deviyakurichi, February 23 2013

Books Published: NIL**Seminar, Conference, Workshop Organized:**

S.No.	Title	Duration	Level (Intern. / National)
1	One day Workshop on “Algorithmic Thinking and Scratch Programming”	18 August 2015	SRIT Women in Computing Club (College Level)
2	Secretarial Assistant for Fourth National Conference on Communication, Computation, Control and Automation CCCA-2014	March 28-29, 2014	National
3	Two weeks ISTE Workshop at Sri Ramakrishna Institute of Technology for “Database Management Systems” in	21 May 2013 to 31 May 2013	National

	collaboration with IIT Bombay		
4	One day National Seminar on "Cloud Computing and its Applications"	February 01, 2013	National

Seminar, Conference, Workshop Attended:

PARTICULARS	Title	Date	Venue
Attended	One day Workshop titled "Network Simulator – NetSim for Researchers (Hands-on)"	January 23 2016	PSG College of Technology, Coimbatore
	Two days National Workshop titled "Cyber Security – Threats and Vulnerability Assessment"	January 8 and 9 2016	PSG College of Technology, Coimbatore
	One day Hands-on Workshop titled "Launch yourself with PHP and MySQL"	July 25 2015	Sri Ramakrishna Institute of Technology, Coimbatore
	Two days National Level Workshop titled "Big Data Analytics"	February 27 and 28 2015	Sri Ramakrishna College of Engineering, Coimbatore
	One day National Level Seminar titled "Research Methodologies in Information and Communication Technology"	March 01 2014	Sri Ramakrishna Institute of Technology, Coimbatore
	CSI Sponsored Two day Workshop titled "Hadoop Eco-system The Practitioner Approach"	January 31 and February 01 2014	Sri Ramakrishna Institute of Technology, Coimbatore
	Two days National Workshop titled "Evolutionary Optimization Techniques for Solving Multidisciplinary Research Problems"	December 06 and 07 2013	Karunya University, Coimbatore
	One day National Seminar titled "Challenges and Strategies in Research".	September 27 2013	SNS College of Technology, Coimbatore
	Two days National Workshop titled "Software for Data Mining"	September 17 and 18, 2013	Anna University, Regional Center Coimbatore

Attended	Spoken Tutorial Workshops on “Linux, LaTeX, PHP-MySQL and Python”	February 02, 2013.	Sri Ramakrishna Institute of Technology with course material provided by the Talk To a Teacher project of IIT Bombay
	One day National Seminar on “Cloud Computing and its Applications”	February 01, 2013	Sri Ramakrishna Institute of Technology, Coimbatore and sponsored by Infosys
	“Technical Writing and Presentation with a Focus on Research”	December 14 2012	Sri Ramakrishna Institute of Technology, Coimbatore
	One day Workshop titled “Neural Networks and its Applications”	September 22, 2012	Sri Krishna College of Engineering and Technology, Coimbatore
	Two days DRDO Sponsored National Workshop titled “Research Trends in Information Security”	February 10 and 11, 2012	Sri Krishna College of Engineering and Technology, Coimbatore
	One day Workshop titled “Need Based Approach for Effective Teaching”	June 21, 2011	Sri Ramakrishna Institute of Technology, Coimbatore
	Three days ACM sponsored National Workshop titled “Grid and Cloud Computing”	January 28 and 30, 2011	PSG College of Technology, Coimbatore
Lectures given	Problem Solving through Algorithms	March 03 2015	Sri Ramakrishna Institute of Technology, Coimbatore
	Third National Conference on Communication, Computation, Control and Automation	March 09-10 2012	Sri Ramakrishna Institute of Technology
	2 nd National Conference on Communication, Computation, Control and Automation	April 23-24, 2010	Sri Ramakrishna Institute of Technology
	Intrusion Detection in MANETs	October 01, 2013	Bharathiyar Institute of Engineering for

			Women, Salem under the programme IETE Sponsored National Seminar on “Recent Trends in Digital Image Processing and Mobile Ad hoc Networks”
	Peer Instruction : A 21st Century Learning Methodology	May 2,3 and 4 2013	Sri Ramakrishna Institute of Technology, Coimbatore
	Introduction to Open Source Software	September 27, 2012	Sri Ramakrishna Institute of Technology, Coimbatore

Guest Lectures Delivered:

Topic	Institution	Date(s)
Intrusion Detection in MANETs	Bharathiyar Institute of Engineering for Women, Salem	October 01, 2013

Membership in Professional Bodies:

Professional Body	Year of Joining	Type
ACM Professional Member Member Number: 4560780	July 2014	Professional Member
International Association of Engineers (IAENG) IAENG membership number : 112114	February 21 2011	Life Member
Institute of Research Engineers and Doctors (theIRED) membership number : AM10100055508	March 25 2016	Associate Member

Contributions to the Institution, Department and Society:

1. Library Advisory Committee Member of the Institution.
2. A member in the Anti-ragging Committee of the Institution
3. Coordinator of Women Empowerment Cell of the Institution

4. A member in the Internal Compliance Committee of the Institution
5. Secretarial Assistant for Technical Conferences held in the Institution
6. Sub Zone Leader for CSE department zone in '5S' Programme
7. A member in the Advisory Committee of CSE Department.
8. Practical Examination In-charge for the Department of CSE
9. A member in the Accreditation Committee of CSE Department.
10. Minutes Recorder during the HOD meetings in the Department.
11. Mock Auditor of NBA related files for ECE and EEE departments
12. Faculty Coordinator of SRIT Women in Computing Club
13. Project Coordinator of Post Graduate CSE
14. Tutor for ME-CSE batch(2013-2015)
15. Tutor for ME-CSE batch(2014-2016)
16. Tutor for ME-CSE batch(2015-2017)
17. Tutor for the batch of 2008-2012.
18. Event Organizer of "Just a Minute" on Annual Day Celebration function.
19. Acted as Comper for various functions of the Institution and Department.

Awards and Recognitions:

Received Recognition for the role of Workshop Coordinator in the successful completion of the two week ISTE Workshop on Database Management Systems conducted by IIT Bombay from 21st to 31st May, 2013