



Sinhgad Technical Education Society's

Sinhgad College of Engineering
Vadgaon (Budruk) Off. Sinhgad Road, S.No. 44/1,



Mrs. Aarti Amod Agarkar

BE IT

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Personal Details

Current Address	512, Shaniwar Peth, Uma Prasad Society, Pune 411030
Permanent Address	512, Shaniwar Peth, Uma Prasad Society, Pune 411030
Marital Status	Widow
Blood Group	O+
Telephone	020-24488614
Email Id	aaagarkar.scoe@sinhgad.edu
Skills Known	Network Simulator(NS), .NET, Java, Wireless Sensor network, Security, Smart grid, Internet of Things
Gender	Female
Date of Birth	Jul 26,1980
Strengths	Consistency, Sincerity
PAN	AWXPA2518G

Academic Qualification

Degree	Institute Name	University Name	Year of Passing	Percentage	Grade	Qualification Status
PhD	Symbiosis International University, Pune	Symbiosis international university, pune	-	0.0	-	Completed
ME	Sinhgad College of Engineering	University of puna	2009	70.2	First Class with Distinction	Completed
B E	Walchand College of Engineering, Sangli	Shivaji university	2001	70.14	First Class with Distinction	Completed
Diploma in computer technology	G.W.R.P., Latur	Director of technical education	1998	69.0	First class	Completed

Subject Taught

Subject	Academic Year	Remarks
Discrete Structures		
Fundamental of Data Structures		
Design and Analysis of Algorithms		
Information Retrieval		
Programming Laboratory		
Software Design Laboratory		
CLP_ I		
CLP - II		
Discrete Structures	16 Jun 2014 to 20 Sep 2014	
Design and Analysis of Algorithms	15 Dec 2014 to 10 Apr 2015	
Programming Laboratory	16 Jun 2014 to 20 Sep 2014	
Software Laboratory - II	15 Dec 2014 to 10 Apr 2015	
Discrete Structures	15 Jun 2015 to 23 Sep 2015	
Programming Laboratory	15 Jun 2015 to 23 Sep 2015	
Design and Analysis of Algorithms	15 Dec 2015 to 21 Mar 2016	

Software Laboratory - II	15 Dec 2015 to 21 Mar 2016	
Discrete structures	15 Jun 2016 to 15 Nov 2016	
Programming Laboratory	15 Jun 2016 to 15 Nov 2016	
Design and analysis of algorithms	12 Dec 2016 to 02 Apr 2017	
SL-II	12 Dec 2016 to 02 Apr 2017	

Training Details

Training Title	Arrange By	Venue	Date
New Concepts, Methods and Advanced Techniques in Speech Processing, Image Processing and Pattern Recognition	SGGS, Nanded	SGGS, Nanded	15 May 2006 to 26 May 2006
National	Research	External	Web Crawler
Sinhgad Institute of Technology and Science, Narhe	Sinhgad Institute of Technology and Science, Narhe	18 Mar 2012 to 18 Mar 2012	Training
Extra-Curricular Activities	External	Design and Analysis of Algorithms - Brach and Bound Mthod	B.V.C.O.E.W.,Pune
B.V.C.O.E.W.,Pune	13 Mar 2011 to 13 Mar 2011	Training	Extra-Curricular Activities
External	.NET Technologies	Smt. Kashibai Navale College of Engineering, Pune	SKN, Pune
24 Nov 2005 to 28 Nov 2005	National	Quality Improvement Programs	External
Network Simulator 2	Symbiosis Institute of Technology, Pune	Symbiosis Institute of Technology, Pune	05 Aug 2015 to 05 Aug 2015
			Train the trainer
SCOE, Pune	SCOE, Pune	08 Jun 2016 to 10 Jun 2016	
		Getting Started with OneNote	Microsoft
IT Department, SCOE, Pune	14 Dec 2018 to 14 Dec 2018		
	Certified Microsoft Innovative Educator	Microsoft	IT Department, SCOE, Pune
14 Dec 2018 to 14 Dec 2018			
Digital Storytelling With Microsoft Sway	Microsoft	IT Department, SCOE, Pune	14 Dec 2018 to 14 Dec 2018
			Guest Lecture on Recurrence Relations
Department of IT, Zeal College of Engineering and Research, Pune	Department of IT, Zeal College of Engineering and Research, Pune	01 Oct 2018 to 01 Oct 2018	
		Guest Lecture on Discrete Structures	BVCOEW, Pune
BVCOEW, Pune	28 Sep 2018 to 28 Sep 2018		
	SL-II and Project Based Seminar	Marathwada Mitra Mandals College Of Engineering, Pune	Marathwada Mitra Mandali's College Of Engineering, Pune
16 Jan 2015 to 16 Jan 2015			
Backtracking	Marathwada Mitra Mandals College Of Engineering, Pune	Marathwada Mitra Mandals College Of Engineering, Pune	25 Feb 2015 to 25 Feb 2015
			Network Simulator 2
Symbiosis Institute of Technology, Lavale	Symbiosis Institute of Technology, Lavale	05 Aug 2015 to 05 Aug 2015	
		Design and Analysis of Algorithms	BVCOEW, Pune
BVCOEW, Pune	05 Mar 2011 to 05 Mar 2011		
	Orientation lecture on BE Project Execution	IT Department, SCOE, Pune	IT Department, SCOE, Pune
23 Jun 2017 to 23 Jun 2017			

Conference Details

Name	Venue	Date	Level	Category	Type	Sponsored By
INNOVATION 2015	D.Y.Patil, Akurdi	06 Jul 2015 to 06 Jul 2015	University of Pune	Research		BCUD, Pune
iPGDCON 2016	SCOE, Pune	29 Apr 2016 to 30 Apr 2016	University of Pune	Intra-Institutional Conference		SCOE, Pune
Problem solving and object oriented programming and Fundamental of Data structures	PVG COE, Pune	07 Jul 2016 to 08 Jul 2016	National	Quality Improvement Programs		
AVISHKAR 2016	VIIT, Kondhawa	02 Dec 2016 to 02 Dec 2016	National	Research		
National Conference on Recent Trends and Advances in Computing, Communication and Security	IT Department, SCOE, Pune	16 Feb 2017 to 17 Feb 2017	National	Management Development Program		BCUD, SPPU, Pune
Orientation Lecture on Avishkar 2017	IT Department, SCOE, Pune	28 Sep 2017 to 28 Sep 2017	National	Quality Improvement Programs		BCUD, SPPU, Pune
Orientation lectures on AVISHKAR 2016	IT Department, SCOE, Pune	28 Sep 2016 to 28 Sep 2016	National	Quality Improvement Programs		BCUD, SPPU, Pune
International Conference on Sustainable Development	SCOE, Pune	14 Feb 2019 to 15 Feb 2019	International	Intra-Institutional Conference		BCUD, SPPU, Pune
ICUUBEA 2018	PCCOE, Pune	16 Aug 2018 to 18 Aug 2018	International	Intra-Institutional Conference		
PRATIBHA Conference	PICT, Pune	28 Mar 2012 to 28 Mar 2012	National	Intra-Institutional Conference		
Project Exhibition	BVCOEW, Pune	01 Apr 2011 to 01 Apr 2011	National	Management Development Program		

Workshop Attended

Workshop Topic	Conducted By	Date	Level	Category	Type
Development in Networking	SKNCOE, Pune	05 Apr 2008 to 06 Apr 2008	Extra-Curricular Activities	Extra-Curricular Activities	External
Distributed Systems and Information Retrieval	Sinhgad College of Engineering, Pune	13 Feb 2012 to 18 Feb 2012	Extra-Curricular Activities	Extra-Curricular Activities	Internal
Networks and Information security	Vishkarma Institute of Technology, Pune	11 Jan 2007 to 13 Jan 2007	Quality Improvement Programs	Quality Improvement Programs	External
Massively Empowered Classrooms	Microsoft research and PICT	06 Jul 2013 to 06 Jul 2013	Industry Interaction	Industry Interaction	External
Train the trainers (TE IT)	SKNCOE, Pune	09 Dec 2013 to 13 Dec 2013	Quality Improvement Programs	Quality Improvement Programs	External
Train the tainer (SE IT)	SIT, Lonavala	10 Jun 2013 to 15 Jun 2013	Quality Improvement Programs	Quality Improvement Programs	External
Research in Wireless Sensor Network using NS3	IT Department, SCOE, Pune	16 Mar 2015 to 18 Mar 2015	Quality Improvement Programs	Quality Improvement Programs	External
Cloud Computing, big data and its components	IT Department, SCOE, Pune	26 Mar 2015 to 28 Mar 2015	Quality Improvement Programs	Quality Improvement Programs	External
Machine learning and software Laboratory III	IT Department, SCOE, Pune	03 Jul 2015 to 03 Jul 2015	Quality Improvement Programs	Quality Improvement Programs	External

Revision of BEIT syllabus 2012 Course	SIT, Lonavala	23 Mar 2015 to 23 Mar 2015	Quality Improvement Programs	Quality Improvement Programs	External
CAMSS	SPPU, Pune	25 Sep 2014 to 26 Sep 2014	Quality Improvement Programs	Quality Improvement Programs	External
Design and Analysis of Algorithms	SITS, Narhe	11 Dec 2014 to 13 Dec 2014	Intra-Institutional Seminars	Intra-Institutional Seminars	External
Implementation of ME-IT Syllabus (2013 Course)	SCOE, Pune	31 Aug 2013 to 31 Aug 2013	Quality Improvement Programs	Quality Improvement Programs	External
Yoga for Healthy Eyes : An awareness	ACE Hospital, Pune	28 Aug 2016 to 28 Aug 2016	Extra-Curricular Activities	Extra-Curricular Activities	External
Cyber security and forensic tools	Bharati Deemed University COE, Pune	06 Oct 2016 to 08 Oct 2016	Quality Improvement Programs	Quality Improvement Programs	External
INNOVATION 2016	BCUD, SPPU, Pune	07 Oct 2016 to 07 Oct 2016	Research	Research	External
Coding theory and cryptography	SGGS, Nanded	26 Dec 2016 to 31 Dec 2016	Quality Improvement Programs	Quality Improvement Programs	Internal
Internet of Things	COEP, Pune	15 Feb 2017 to 19 Feb 2017	Quality Improvement Programs	Quality Improvement Programs	External
NPTEL Course on " Design and analysis of Algorithm "	IIT- Madras	01 Jul 2017 to 30 Sep 2017	Quality Improvement Programs	Quality Improvement Programs	External
Insights into Business Analytics	IMS Pro School	17 Jul 2017 to 17 Jul 2017	Quality Improvement Programs	Quality Improvement Programs	Internal
Train the trainer	SIT, Lonavala	13 Dec 2017 to 15 Dec 2017	Intra-Institutional Conference	Intra-Institutional Conference	Internal
Developing Multidimensional Competencies in Teachers	AICTE - ISTE	04 Jun 2018 to 09 Jun 2018	Quality Improvement Programs	Quality Improvement Programs	External
TE IT 2015 Semester II: Syllabus Orientation	SPPU, Pune	06 Dec 2017 to 06 Dec 2017	Quality Improvement Programs	Quality Improvement Programs	External
Syllabus Orientation workshop BE-IT (2015 Course) Semester II	SPPU, Pune	28 Dec 2018 to 28 Dec 2018	Quality Improvement Programs	Quality Improvement Programs	External
IoT Data Acquisition & Analytics using Cloud Computing	BoS IT, SPPU, Pune	11 Jan 2019 to 12 Jan 2019	Quality Improvement Programs	Quality Improvement Programs	External
Cyber security and Data Science	Shivaji University Kolhapur under the scheme of Pandit Madan Mohan Malviya National Mission for Teachers and Teaching	11 Feb 2019 to 17 Feb 2019	Quality Improvement Programs	Quality Improvement Programs	External
Online Course on Algorithms	IIT Bombay	13 Mar 2018 to 18 Dec 2018	Quality Improvement Programs	Quality Improvement Programs	External
Train the Trainer for SE IT	IT Department, SCOE, Pune	05 Jun 2017 to 10 Jun 2017	Quality Improvement Programs	Quality Improvement Programs	Internal
Ubiquitous Computing using ANDROID Studio	BoS IT, SPPU, Pune	22 Jan 2019 to 23 Jan 2019	Quality Improvement Programs	Quality Improvement Programs	External

Research Projects

Project name	Status	Budget	Project type
Secured data aggregation in WSN		170000	Simulation Projects

Secured Data Aggregation in WSN		170000	Simulation Projects
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Research Papers and Journals

ISSN/ISBN No	Paper Title	Publish Date	Journal/Conference Name	Level	Paper Status	Authors
-	Application Independant routing Protocol for WSN	2009	INNOVATION 2009	Other	Accepted and Published	Aarti Agarkar
-	Application Independant routing Protocol for WSN	2010	INNOVATION 2010	Other	Accepted and Published	Aarti Agarkar
-	Real time monitoring and controlling of street lights using Wireless sensor networks	2008	Emerging trends in Engineering	Conference-International level	Accepted and Published	Aarti Agarkar
2278-0181	Designing Path assured transfer protocol for Wireless sensor Network	2013	International Journal of Engineering Research and Technology	Indexed Journal	Accepted and Published	Aarti Agarkar
2321-7308	Transport layer protocol in urgent data transmission in WSN	2013	International Journal of research in Engineering and Technology	Indexed Journal	Accepted and Published	Aarti Agarkar
2249-8958	Optimizing Image stegenography with better image quality and anti-steganalysis	2014	International Journal of Engineering and Advanced Technology (IJEAT)	Indexed Journal	Accepted and Published	Aarti Agarkar
2348-2117	Survey on Authentication Schemes in Smart Grid Network	2014	IJETCR	Conference-International level	Accepted	Aarti Agarkar
1	Authentication Scheme for Smart Grid: A Conceptual Design	2015	iPGCON 2015	Conference-National level	Accepted and Published	Aarti Agarkar
2250-3153	Survey of reusable protocols of WSN	2014	International Journal of Scientific and Research Publications, Volume 4, Issue 12	Journal - International level	Accepted and Published	Aarti Agarkar
2277 128X	Survey: Firewall Anomaly Management	2014	IJERCSSSE, Volume 4, Issue 3	Journal - International level	Accepted and Published	Aarti Agarkar
0974-3588	STEGANOGRAPHY, STEGANALYSIS AND OPTIMIZATION IN STEGANOGRAPHY: A SURVEY	2014	IJ-ETA-ETS, Vol 1, Issue 7	Journal - International level	Accepted and Published	Aarti Agarkar
0975 – 8887	On Lightweight Authentication for Smart Grid Network	2015	IJCA, Volume 123 – No.5	Journal - International level	Accepted and Published	Aarti Agarkar

1	Secure Data Aggregation for smart home in smart grid	2016	iPGDCON 2016	Conference-National level	Accepted and Published	Aarti Agarkar
	Secure Data Aggregation Techniques in Smart Grid			International		Aarti Agarkar
	Secure Data Aggregation Techniques in Smart Grid			International		Shital Bhosale, Aarti Agarkar
ISSN: 2249-8958	An enhancement in quality of image & Anti-steganalysis by using optimizing image stegenography	2013		International		Aarti Agarkar
	Lightweight R-LWE based Privacy Preservation Scheme for Smart Grid Network	2018		International		Aarti Agarkar

Membership Details

Membership Body	Details	Duration	Level
ISTE		Lifetime	International

Post Held

Organization Name	Post	Organization Category	Appointment Status	Duration
Sinhgad College of Engineering, Pune	Assistant Professor	University of Pune	UGC Approved	Jul 11, 2008 to
S.V.E.R.I.'s College of Engineering, Pandharpur	Lecturer	Solapur University	Full Time Appointment	May 11, 2005 to Aug 22, 2005
B.V.C.O.E.W., Pune	Lecturer	University of Pune	UGC Approved	Aug 23, 2005 to Jul 10, 2008
EXCEL Informatics, Solapur	Software Engineer	Private Ltd Company	private	Sep 21, 2002 to May 11, 2005

Research Guidance

Student Name	Topic
Anuradha Kasande	Optimizing Image stegenography with better image quality and Anti-steganalysis
Shilpa Shelke	Authentication scheme in smart grid network
SHital Bhosale	Secure Data Aggregation for smart home in smart grid
HAni B. Patil	Firewall Anomaly Management
Pooja	R-LWE based privacy preservation scheme in SG

Books Published

ISBN	Title	Publisher	Publish Year
978-81-8492-053-6	Information Retrieval	TechMAX, Pune	Feb 2016
	Professional		
	Academic		
	Academic		
	Academic		
	Professional		
			2018

Self Contribution

Institutional Development Contribution(2014-2015)			
Date	Venue	Contribution	Category
01,Dec - 31,May	-	Coordinator of technical section of College magazine SRUJAN 2015	Coordination
04,Aug - 31,Aug	-	Deadstock verificaton of Biotechnology Department	Dead Stock Verification
15,Jun - 01,Jul	-	Research Coordinator of Department	Research

Institutional Development Contribution(2013-2014)			
Date	Venue	Contribution	Category
12,Jan - 30,Jan	IT Departmet, SCOE, Pune	Departmental Coordinator of SEED IDOL 2014	Coordination

Institutional Development Contribution(2015-2016)			
Date	Venue	Contribution	Category
15,Jun - 31,Jul	-	Research coordinator of department	Research
01,Apr - 10,Apr	-	Dead stock verification of Biotechnology department	Dead Stock Verification
15,Jun - 01,Jul	-	Coordinator of Research and development committee at department level	Research

Academic Development Contribution(2015-2016)			
Date	Venue	Contribution	Category
15,Jun - 30,May	-	Chairman of Subject - DAA for Insem and End Sem Paper setting	Chairman- Paper Setting

Institutional Development Contribution(2016-2017)			
Date	Venue	Contribution	Category
May 01,2016 - Apr 30,2017	IT Departement, SCOE, Pune	Research Coordinator of the Department	Department Reserach Coordinator
May 01,2016 - Apr 30,2017	IT Department, SCOE, Pune	Department Research Coordinator	Departmental Project Co-ordinator
May 01,2016 - Apr 30,2017	SCOE, Pune	Coordinator of Technical Section of college magazine SRUJAN	College Magazine SRUJAN
May 01,2016 - Apr 30,2017	IT Department, SCOE, Pune	In-charge of Department Library	Departmental Library Incharge
May 01,2016 - Dec 31,2016	IT Department, SCOE Pune	Class Teacher for SE-I SEM I (2016-17)	Class Coordinator
Jun 08,2016 - Jun 10,2016	IT Department, SCOE, Pune	Coordinator for Subject discrete structures for Train the trainer workshop conducted during 8th June 2016 to 10th June 2016	Coordinator
Sep 28,2016 - Sep 28,2016	IT Department, SCOE, Pune	Organized orientation lectures on AVISHKAR 2016 on 28th September 2016	Coordinator
Dec 19,2016 - Dec 19,2016	SCOE, Pune	Discipline Committee Member for Cultural Program arranged for NAAC Peer team	Discipline committee
Dec 01,2016 - Dec 20,2016	IT Department, SCOE, Pune	Departmental board printing for different laboratories and department during NAAC visit	NAAC
Nov 01,2016 - Dec 28,2016	IT Department, SCOE, Pune	File preparation for NAAC (19: Library, 26: R&D, Patents)	NAAC WORK

Feb 27,2017 - Mar 01,2017	SCOE, Pune	Organized workshop on "Nirbhaya Kanya Abhiyan" under aegis of board of students welfare (BSW), SPPU	UNIVERSITY OF PUNE
Feb 16,2017 - Feb 17,2017	IT Department, SCOE, Pune	Member of national conference on recent trends and advances in computing, communication and security (NCRTACCS 2017)	Member of Committee

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Date	Venue	Contribution	Category

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Date	Venue	Contribution	Category

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Date	Venue	Contribution	Category

Institutional Development Contribution(2017-2018)			
Date	Venue	Contribution	Category
May 01,2017 - Apr 30,2018	IT Department, SCOE, Pune	Research coordinator for Department of Information Technology at college level.	Department Reserach Coordinator
May 01,2017 - Apr 30,2018	IT Department, SCOE, Pune	Departmental UG Project Coordinator	project coordinator
May 01,2017 - Dec 31,2017	IT Department, SCOE, Pune	Class teacher (SE –II) for SEM I (2017-18)	Class Coordinator
Jun 05,2017 - Jun 10,2017	IT Department, SCOE, Pune	Coordinator for Subject discrete structures for Train the trainer workshop	TTT Coordinator
Sep 28,2018 - Sep 28,2018	IT Department, SCOE, Pune	Organized Orientation lectures on AVISHKAR 2017	organiser
May 01,2017 - Apr 30,2018	SCOE, Pune	Faculty advisor for PRAYAS (A student group of social activities)	Coordinator
Jan 01,2018 - Apr 30,2018	IT Department, SCOE, Pune	Lab In-charge (Network Laboratory) SEM II 2017-18	LAB INCHARGE
May 01,2017 - Apr 30,2018	SCOE, Pune	Technical section coordinator for College magazine SRUJAN 2018	Technical Committee Coordinator

Institutional Development Contribution(2018-2019)			
Date	Venue	Contribution	Category
May 01,2018 - May 31,2019	SCOE, Pune	SCOE Website Coordinator	Institute website Updation Incharge
May 01,2018 - Apr 30,2019	SCOE, Pune	Coordinator for PRAYAS (A student group of social activities)	Coordinator
May 01,2018 - Apr 30,2019	IT Department, SCOE, Pune	Member of Research and Development Committee of the Department	Member of Committee
May 01,2018 - Apr 30,2019	IT Department, SCOE, Pune	Department Research Coordinator	Department Reserach Coordinator
May 01,2018 - Apr 30,2019	IT Department, SCOE, Pune	Department NPTEL Coordinator	Coordinator

Academic Development Contribution(2017-2018)			
Date	Venue	Contribution	Category
Sep 01,2017 - Sep 01,2017	-	Paper setter and Examiner for "Discrete Structures" SE IT, SPPU, Pune	Paper Setter
Sep 07,2017 - Sep 21,2017	-	Question Paper Bank Generation at SPPU Pune for "Discrete Structures" SE IT Subject	Paper Setter

Sep 13,2017 - Sep 20,2017	-	Paper setter and Examiner for "MFIT" ME IT, SPPU, Pune	Paper Setter
Mar 14,2018 - Mar 21,2018	-	Paper setter and Examinere for "Discrete Structures" SE IT, SPPU, Pune	Paper Setter
Mar 15,2018 - Mar 22,2018	-	Paper setter and Examiner for "Design and Analysis of Algorithms", TE IT	Paper Setter
Feb 20,2018 - Feb 20,2018	-	Paper setter and Examiner for "MFIT", ME IT	Paper Setter

Academic Development Contribution(2016-2017)

Date	Venue	Contribution	Category
Feb 14,2017 - Feb 21,2017	-	Chairman of Insem and Endsem examination : TE IT (Subject DAA)	Paper Setter

Academic Development Contribution(2018-2019)

Date	Venue	Contribution	Category
Sep 11,2018 - Sep 12,2018	-	Mathematical Foundation of Information Technology (514401) , M.E. Information Technology - 2017 Course	Paper Setter
Aug 28,2018 - Aug 30,2018	-	Paper Setter for "Discrete Structures" SE IT	Paper Setter
Feb 18,2019 - Feb 20,2019	-	Paper Setter for Internet and Web Programming (414464D) , (sem-II), BE IT	Paper Setter
Feb 18,2019 - Feb 20,2019	-	Paper Setter for Design and Analysis of Algorithms, TE IT (2012 Course)	Paper Setter

Declaration

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date :20-Feb-2019

Mrs. Aarti Agarkar