



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under category 'A' By MHRD, Estd.u/3 of UGC Act 1956)

Re Accredited with 'A' Grade by NAAC, Recognised by UGC u/s 12B, Coimbatore – 641 043

School of Engineering

(Approved by AICTE)

AyyaAvinashilingam Nagar, Varapalayam, ChinnaThadagam PO, Coimbatore – 641 108

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CSE ANNUAL NEWS LETTER VOL.4 NO. 1 2019

EDITORIAL BOARD

Chief Patron:

Dr. T. S. K. Meenakshisundaram

Managing Trustee

Patrons:

PadmashriDr.P.R. Krishnakumar

Chancellor

Dr.(Mrs) PremavathyVijayan

Vice Chancellor

Dr.(Mrs) S.Kowsalya

Registrar

Chief Editor:

Dr. (Mrs.) S. Maragatham

Dean

Editor:

Dr. (Mrs) S. Sivakumari

Prof & Head

Staff Editor:

Mrs.D.Nithya

Assistant Professor

Student Editors:

Ms.L.Sanjana III CSE

Ms. S.Shurabthini III CSE

Message from Dean



The proverb “Fortune favours the bold” is very true in the case of School of Engineering. The School of Engineering is breaking barriers and moving forward confidently. With proud legacy of 23 years, the School of

Engineering has excelled in every field. We have also been adding new, cutting-edge elements to our curriculum which provides new insights in emerging technologies.

I’m very delighted to note that the important events and achievements of the Department of Computer Science and Engineering is published every year through this “CSE Annual Newsletter”. In fact the practice of publishing “Newsletter” of department is a useful medium for demonstrating its capability. Publishing articles commenting on important issues of department or reviewing recent developments in the thrust areas of department indicates that the department has a good understanding of the challenges and opportunities.

On behalf of all the Administrators of the institute, I convey my best wishes to all the faculty members and students for the more fruitful journey ahead in 2019-2020 and the years to come.

ABOUT THE DEPARTMENT

The department of computer science and engineering established in 1996 offers (B.E Computer Science and Engineering) and M.E (Computer Science and Engineering) and Ph.D in (Computer Science and Engineering). The department has highly qualified and committed faculty members. The laboratories are well equipped with the latest computational facilities and softwares. MOOC courses are offered through NPTEL and Bodhi tree programmes in collaboration with IIT's to enhance the skill of the students. The students are offered excellent atmosphere to Learn,acquire knowledge and skills required by the industry. The department coordinates the activities of the professional bodies like CSI student branch and ICT academy. The department has an academic partnership with oracle, EMC and VMware.

VISION OF THE DEPARTMENT

To empower women technocrats in the field of computer engineering and prepare the students for higher studies and professional career through technology, innovations and human values to serve the changing needs of our nation.

MISSION OF THE DEPARTMENT

- To promote the all-round development of the students by providing them sound technical knowledge in the field of computer science and engineering based on the current advances in technology to help the development of nation
- To develop employability skills and research capability in women graduates through quality technical education
- To provide learning for the enhancement of technical skills, problem solving ability, team spirit, entrepreneurial skills with emphasis on value education with social ethics and cultural values in women technocrats

**Conferences/Workshops /Seminars /FDP/STP/TP/Refresher Course/
Orientation course Attended by Staff**

CONFERENCE

S.No	Name of the Staff	Program details	Venue	Date
1	Dr.Aasha.M	National Cyber Defence Conference	Cochin University of Science and Technology , Kochi campus, Kerela	02.03.2019
2	Ms.Sherlin Suresh	ICTACT Bridge – Industry Interaction Event	Hotel Le Royal Meridian, Chennai	31.01.2019
3	Ms.U.Surya	ICTACT Bridge – Industry Interaction Event	Hotel Le Royal Meridian, Chennai	31.01.2019
4	Ms.U.Surya	National Digital Security Conference	KalaignarKarunanidhi Institute of Technology, Coimbatore	21.12.2018
5	Mrs.M.Thenmozhi	National Digital Security Conference	KalaignarKarunanidhi Institute of Technology, Coimbatore	21.12.2018

WORKSHOP

S.No	Name of the Staff	Program details	Venue	Date
1.	Dr.P.Amudha	New Framework of NAAC- Accreditation and Institutional Preparedness	IQAC Cell, Avinashilingam Institute for Home Science and Higher Education for Women	13.08.19 & 14.08.19
2.	Dr.P.Amudha	Enablers of E-Teaching and E-Learning	Department of Business Administration , School of Commerce and Management, Avinashilingam	06.03.19 to 08.03.19

			Institute for Home Science and Higher Education for Women	
3	Dr.S.Sivaranjani	MATLAB and SIMULINK for Engineering and Research	DesignTech Hotel Zone by the Park , Coimbatore	01.09.2018, 03.09.2018 and 04.09.2018
4.	Dr.M.Aasha	MATLAB and SIMULINK for Engineering and Research	DesignTech Hotel Zone by the Park , Coimbatore	01.09.2018, 03.09.2018 and 04.09.2018
5.	Mrs.D.Nithya	MATLAB and SIMULINK for Engineering and Research	DesignTech Hotel Zone by the Park , Coimbatore	01.09.2018, 03.09.2018 and 04.09.2018

SEMINARS

S.No	Name of the Staff	Program details	Venue	Date
1.	Dr.P.Amudha	IBM Learnovate event	IBM and Adroit Technologies	20.11.2018
2.	Dr.S.Sivaranjani	IBM Learnovate event	IBM and Adroit Technologies	20.11.2018
3.	Mrs.T.Thenmozhi	Cyber Threat Intelligence	Avinashilingam Institute for Home Science and Higher Education for Women with National Cyber Safety and Security Standards	15.02.2019

4.	Ms.U.Surya	Cyber Threat Intelligence	Avinashilingam Institute for Home Science and Higher Education for Women with National Cyber Safety and Security Standards	15.02.2019
5.	Ms.Aarthi.N	Cyberethics: Social and Moral Issues	Avinashilingam Institute for Home Science and Higher Education for Women in association with National Cyber safety and Security Standards	17.02.18

FDP/STP/TP

S.No	Name of the Staff	Program details	Venue	Date
1.	Dr.P.Amudha	Introduction to Machine Learning	NPTEL- AICTE (funded by ministry of HRD, Govt. of India)	August to October 2018
		Introduction to Big Data Analytics	ICT Academy at PSG College of Arts and Science, Coimbatore.	01.02.2019 and 02.02.2019
2.	Dr.S.Sivaranjani	Introduction to Cloud Computing	ICT Academy at Jansons Institute of Technology	24.01.2019 and 25.01.2019
3.	Dr.M.Aasha	Cyber Security	Cochin University of Science and Technology(CU SAT), Kochi campus, Kerala	01.03.2019
		Introduction to Python	ICT Academy at	17.12.2018 and

		Programming	Sri Ramakrishna College of Arts and Science for women, Coimbatore.	18.12.2018
4.	Mrs.M.Thenmozhi	National Cyber Safety	KIT – Kalaingnarkarun anidhi Institute of Technology, Coimbatore.	20.12.2018
5.	Ms.S.Dhivya	Introduction to Cloud Computing	ICT Academy at Jansons Institute of Technology	24.01.2019 and 25.01.2019
		Entrepreneurship – Initiate and Ignite	Department of Business Administration at Avinashilingam Institute for Home Science and Higher Education for Women	17.09.2018 To 29.09.2018
6.	Ms.Sherlin Suresh	Introduction to Python Programming	ICT Academy at Karpagam College of Engineering, Coimbatore.	17.09.2018 and 18.09.2018
7.	Ms.U.Surya	Stress Management	ICT Academy at Dr. RV Arts and Science College	08.01.2019 and 09.01.2019
		National Cyber Safety	KIT – Kalaingnarkarun anidhi Institute of Technology, Coimbatore.	20.12.2018
8.	Ms.N.Aarthi	Stress Management	ICT Academy at Dr. RV Arts and Science College	08.01.2019 and 09.01.2019
		Introduction to Python Programming	ICT Academy at Karpagam	17.09.2018 and 18.09.2018

			College of Engineering, Coimbatore.	
--	--	--	--	--

Paper presented in International Conferences

S.No	Name of the Staff	Conference details	Title of the paper	Venue	Date
1	Dr.S.Sivakumari	International conference on “Emerging Trends in Wireless communications, signal processing and Networking	Sentimental analysis using data mining technique	Department of ECE, Avinashilingam Institute for Home Science and Higher Education for Women	07.03.2019 and 08.03.2019
			A new approach for improving coding performance in high speed optical networks.		
		International conference on Emerging Trends in Science, Engineering and Management	Categorizing the significance of News Articles by applying the decision stream	Maharatta Chamber of Commerce Industries and Agriculture, Pune.	25.11.2018.
	Disambiguating technique for protecting data in social network.				
2	Dr.P.Amudha	International conference on “Emerging Trends in Wireless communications, signal processing and Networking	Sentimental analysis using data mining technique	Avinashilingam Institute for Home Science and Higher Education for Women	07.03.2019 and 08.03.2019
		International conference on	Disambiguating technique	Maharatta Chamber of	25.11.2018.

		Emerging Trends in Science, Engineering and Management	for protecting data in social network.	Commerce Industries and Agriculture, Pune.	
3	Dr.S.Sivaranjani	International conference on “Emerging Trends in Wireless communications, signal processing and Networking	Chatbots in Artificial Intelligence	Avinashilingam Institute for Home Science and Higher Education for Women	07.03.2019 and 08.03.2019
			Sentimental analysis using data mining technique		
4	Dr.M.Aasha	International conference on Contemporary Engineering and Technology	Automated Fire Fighting Robot	Organization of Science and innovative Engineering and Technology, Chennai	09.03.2019 and 10.03.2019
			Public violation detection robot using GAIT analysis		
5	Ms.S.Dhivya	International conference on Recent advances in Engineering and Technology	Secured ATM Transaction using Face Recognition and delegation method	Sri Krishna College of Engineering and Technology, Coimbatore.	08.02.2019 and 09.02.2019.
6.	Mrs.D.Nithya	International conference on Emerging Trends in Science, Engineering and Management	Categorizing the significance of News Articles by applying the decision stream	Mahratta Chamber of Commerce Industries and Agriculture, Pune.	25.11.2018.
		International conference on Emerging technique in engineering technology and	Device to device communication using radio	Rathinam Institute of Management in Association with Organization of	23.03.2019

		management	frequency during disaster situation	Science and innovative Engineering and Technology, Chennai	
		International conference on “Emerging Trends in Wireless communications, signal processing and Networking	A survey of design to device communication system during disaster situation	Department of ECE, Avinashilingam Institute for Home Science and Higher Education for Women	07.03.2019 and 08.03.2019

Papers published in International Journals

S.No	Name of the Staff	Title of the article	Name of the journal	Date of publication
1	Dr.S.Sivakumari Dr.P.Amudha	Disambiguating technique for protecting data in social network.	International Journal of Management, Technology and Engineering	Volume 8, Issue XI, November 2018
2	S.Sivakumari D.Nithya	Categorizing the significance of News articles by applying the decision stream	International Journal of Management, Technology and Engineering	Volume 8, Issue XI, November 2018
3	Dr.S.Sivaranjani Dr.S.Sivakumari M. Aasha	Hot Spot Identification Using Kernel Density Estimation for Serial Crime Detection	Communications in Computer and Information Science, Springer, Singapore	Vol 837. Pages 253-265. September 2018.
4	Mrs.D.Nithya	Device to device communication using radio frequency during disaster situation	International Journal of Scientific Research in Science, Engineering and Technology	Volume 6, Issue 2, March – April 2019
5	Ms.Sherlin Suresh	Automatic brain tumour segmentation using probabilistic neural network and Gaussian mixture model	International Journal of creative research thoughts	Volume 6, Issue 1, March 2018.

6	Ms.S.Dhivya	Secured Payment card transaction using face recognition	Shoodhshauryam, International Scientific Refereed Research Journal	Volume 1, Issue 4, November-December 2018.
7	Ms.U.Surya Ms.N.Aarthi Ms.S.Dhivya Ms.Sherlin Suresh	An overview of anomaly detection techniques in Rapid miner	Journal of Emerging Technologies and innovative research(UGC approved)	Volume 5, Issue 12, December 2018.
8		An optimal Cloud Resource Provisioning Algorithm On-Demand and Reservation Plans	International Journal for Research in Applied Science and Engineering Technology	Volume 7 , Issue 1, January 2019
9	Mrs.M.Thenmozhi	Adaptive MAC based location aware on-demand Energy efficient routing protocol (AMAC – LAODEERP) For wireless ad hoc networks	International Journal of Pure and Applied Mathematics	Volume 119 No. 12 .June 2018, 14213-14223

Books published

S.No	Name of the Staff	Title of the book	Name of the publisher
1.	Dr.P.Amudha	Data mining approach for Intrusion Detection System	Lambert Academic Publishing
2.	Mrs.D.Nithya	Feature Selction using Genetic Algorithm to improve SVM Classifier	Lambert Academic Publishing
3.	Dr.M.Aasha	How can a loss of information in mixed attribute datasets be prevented?	GRIN Verlag
4.	Ms.Sherlin Suresh Ms.S.Dhivya Ms.U.Surya	Computerization of Digital Art	Lambert Academic Publishing

5.	Ms.S.Dhivya Ms.U.Surya Ms.N.Aarthi	Crime Hotspot Mapping and analysis using Interpolation method	Lambert Academic Publishing
6.	Ms.U.Surya Ms.N.Aarthi Ms.Sherlin Suresh	Resource Provisioning on the Cloud for Wildlife Domain	Lambert Academic Publishing
		Smart Home Automation	
7.	Mrs.M.Thenmozhi	Healthcare Monitoring System Using IOT	Lambert Academic Publishing

Awards

S.No	Name of the Staff	Name of the award	Paper title	Scopus indexed journal	Date and location
1	Dr.P.Amudha	NSF Outstanding Best Research Paper Award	A Hybrid Swarm Intelligence Algorithm for Intrusion Detection using Significant Features	The Scientific World Journal	30.09.2018, Coimbatore.

Student Achievement

S.No	Name of the Student	Name of the award	Event title	Date
1	R.Suveatha	First prize in the event of Tech Quiz	GALLANTZ 2K19, National level technical symposium, V.S.B Engineering College, Karur.	09.03.2019.
2	Revathi.M	Winners-KHO-KHO	Intramurals-Sports Meet Avinashilingam Institute for Home Science and Higher Education for Women	23.03.19
3	ShyluDajniAgnus. C	Runner- Ball Badminton	Intramurals-Sports Meet Avinashilingam Institute for Home Science and Higher Education for Women	23.03.19

4	Tharani. R	Runner- Ball Badminton	Intramurals-Sports Meet Avinashilingam Institute for Home Science and Higher Education for Women	23.03.19
5	Archana.R	Runner- Ball Badminton	Intramurals-Sports Meet Avinashilingam Institute for Home Science and Higher Education for Women	23.03.19
6	Sivapreethi.R	Winners-KHO-KHO	Intramurals-Sports Meet Avinashilingam Institute for Home Science and Higher Education for Women	23.03.19
7	Pratibha.S	Winners- Basket Ball	Intramurals-Sports Meet Avinashilingam Institute for Home Science and Higher Education for Women	23.03.19

Conferences, Lectures, Workshops, Seminars organized in the department

S.No	Name of the event	Resource person	Participants	Date
1	One day hands on training on C++ Programming	Mr.K.Jeeva Senior Software Developer Ascentz Technologies, Coimbatore	II CSE	25.07.2018
2	Association activity on Recent Trends in Information Technology	P.Vinayagam, SEO analyst, Gateway Software Solutions	III B.E and IV B.E CSE	05.07.2018
3	Advanced Neuro Linguistic Programming	Mr.Premananth CEO, Startersup, Salem.	II, III, IV year	19.7.2018
4	Workshop on Open source software	Mr.A.Sasi Director of SANS Software Technology Pvt.Ltd coimbatore	IV CSE	10.08.2018

5	Workshop on Web development using Python	Mr.SuriaSarath.R Python Web developer and trainer Gateway Software Solution , Coimbatore	III CSE	17.8.2018
6	Guest Lecture on Image Processing using open CV	Mr.Arunachalam, Project Engineer, PANTECH Solutions, Coimbatore	II, III, IV year	26.9.18
7	One day seminar on Cloud computing	Dr.AnithaKumari, Associate Professor Dept of CSE, PSG College of Technology	III B.E and IV B.E CSE	14.03.2019
8	One day seminar on Object based database	Associate Professor Dept of CSE, PSG College of Technology	III B.E and IV B.E CSE	12.03.2019
9	Workshop on Usage of UML tool	Mr.SabarinathanMuthu, Technical Head & Corporate Trainer, Gateway Sopftware Solutions	IV CSE students	12.03.2019
10	Employability Skill Training on Advanced IT and ITES Training (Tamil Nadu Skill Development Corporation and ICTACT)	1. Mr.Jino Jose Soft Skill Trainer, ICTACT. 2. Mr.S.R. DevivyaPrasanth, Sales Force- Business Administration Specialist Trainer,ICTACT 3. Mr.C.Surendar,	IV CSE , IV IT, IV ECE students	12.3.19 to 12.4.19

		Trainer, ICTACT 4. Mr.E.Hariprasath, Trainer, ICTACT		
11	Seminar on Innovative Product Development	Mr.M.BalagurunathaAravindan, Product Head, Zen Exim Pvt.Ltd Ahmedabad	II, III year CSE	23.3.19
12	3 days workshop on IoT Application Development	Dr.B.Renuga Prasad, Associate Dean Dr.B.H.Chandrasekar, Associate Professor Dr.R.Savitha, Assistant Professor Prof.C.Visha, Assistant Professor Prof.K.Prashanth, Assistant Professor Dept of Master of Computer Applications R.V.College of Engineering, Bangalore	II B.E, III B.E and IV B.E CSE students	13.03.2019 to 15.03.2019
13	Special lecture on Corporate Readiness Program	Dr.E.Venugopal Executive Director Brainwave Coimbatore	III B.E and IV B.E CSE	27.09.19