


## Faculty Profile

A1	Personal Details	
Dr.P.SHANMUGA SUNDARAM		
Associate Professor		
Department of Electronics and Communication Engineering		
Knowledge Institute of Technology		
Ph: +91 - 94422 13479		
E Mail ID: <a href="mailto:psece@kiot.ac.in">psece@kiot.ac.in</a>		

A2	Areas of Interest	Embedded Systems, IoT,Bio Medical Image Processing, Digital signal processing
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A3	Subject Taught	
Embedded and Real Time Systems	Embedded and Real Time Systems	
Digital signal processing		
Digital Image processing		
Linear Integrated Circuits		
Analog and Digital communication		
Microprocessor and Microcontroller		
Professional Ethics in Engineering		

A4	Academic Background			
Degree	Specialization	Name of the Institute	University	Month and Year of Passing
B.E.	Electronics and Communication Engineering	Government college of Engineering, Slem	Anna University	2008
M.E.	Applied Electronics	Anna university of Technology, Coimbatore	Anna University	2010
Ph.D.	Digital Image Processing	Knowledge Institute of Technology, Salem	Anna University	2021

A5		Work Experience as on Jun 2019					
Name of the Institution		Position		From		To	
Knowledge Institute of Technology, Salem		Assistant Professor		June 2010		Present	
Total Experience	18 Years	Teaching	12 Years	Research	6	Industry	6

A6		Research Publications			
Total Number of Publications	International Journal	National Journal	International Conference	National Conference	Total
	12	1	6	21	40
Publications (Journals)					
1	“An Enhancement of Computer Aided Approach for Colon Cancer Detection in WCE Images Using ROI Based Color Histogram and SVM2,”Published in Journal of Medical systems(JOMS)- Springer,Vol 43,Issue 2,DOI: 10.1007/s10916-018-1153-9, Feb 2019, PP 29				
2	“VLSI Implementation of RSA Encryption Decryption Algorithm”i-managers journal on computer science,vol.2No.1,May2014.				
3	Comparison of computer aided diagnostic system for wireless capsule endoscopy images using various filters”, Published in ADVANCES in NATURAL and APPLIED SCIENCES, ISSN: 1995-0772 ,EISSN: 1998-1090 ,2016 May 10(5): pages 228-234				
4	INTELLIGENT LIFE SAVING HELMET DETECTING, IJARMATE, ISSN (ONLINE) : 2454-9762 ISSN (PRINT) : 2454-9762 volume 2, special issue,page no. 191 -194				
5	COMPARISON OF COMPUTER AIDED DETECTION OF BLEEDING regions for Capsule Endoscopy Images, , IJARMATE, ISSN (ONLINE) : 2454-9762 ISSN (PRINT) : 2454-9762 volume 2, special issue.				
6	Fetal Extraction from Maternal ECG using Matlab, i-manager’s Journal of Digital signal processing, Vol.3,No.1,January – March 2015,pp.no.7-11.				
7	P.Shanmugasundaram and Santhiyakumari “Interactive growcut segmentation of capsule Endoscopy Images” at Computational Intelligence and Computer Networks (CICN 2014) International Conference in MIR labs,Bhopal.				
Recent Publications (Conferences)					
1.	R.Rasu,S.Jeevithapriya,Krishnakumar,P.ShanmugaSundaram “Design and implementation of Automatic Demand Draft machine using Labview” at Fourth National Conference on Industrial Technology in Bannari Amman Institute of Technology,March-2013.				
2.	S.Padmapriya,P.Shanmugasundaram,N.Santhiyakumari “Segmentation of video capsule Gastrointestinal image Using Labview” TEQIP-II sponsored National Conference on Electronics, Signal Processing, Communication & Embedded Systems (NCESCES’14) in Coimbatore Instiute Of Technology,Coimbatore, February - 2014.				
3.	S.Padmapriya,P.Shanmugasundaram,N.Santhiyakumari “Wireless Capsule Gastrointestinal Image Segment Using Labview” National Conference on Innovation in Information Technology (NCIIT’14) in Bannari Amman Institute of Technology,February-2014.				

4.	S.Padmapriya,P.Shanmugasundaram,N.Santhiyakumari “Segmentation of video capsule Gastrointestinal image Using Labview” 3rd National Conference on Research advances in Communication,Computation,Electrical Science and Structures(RACCEESS’14) in Bharathiyar Institute of Engineering for Women, February 2014.
5.	S.Padmapriya,P.Shanmugasundaram,N.Santhiyakumari “Segmentation of video capsule Gastrointestinal image Using Labview” 5th National Conference on Civil,Computing and Communication(NC4-2014) in Excel College of Engineering,March- 2014.
6.	Sampathkumar,Gowri,Shymala,P.ShanmugaSundaram“Labview based Automatic Water Distribution Network” at National Conference on Recent Trends & Innovation in Communication Engineering(NCRTICE’14) in Tamilnadu College of Engineering, March- 2
7.	Open Multimedia Application Platform for 3G Wireless in KSR College of Technology on National Conference on 04-02-2010 to 05-02-2010.
8.	Open multimedia Application Platform in Adhiyaman Engineering College,Hosur, On 14 February 2010.
10.	Paper presented on Entrepreneur development and Local employment in Vinakaya Mission University on National Convention .

<b>A 07</b>	<b>Memberships in Professional Bodies</b>
<b>S.No.</b>	<b>Name of the Professional Body</b>
1.	Indian Society for Technical Education (ISTE)

<b>A 08</b>	<b>Training Programmes Attended</b>
<b>At KIOT</b>	
1.	TEQIP-II sponsored Faculty Development Programme on <b>Advanced Techniques In Digital Signal And Image Processing Using MATLAB</b> organised by Government College Of Engineering, Salem from 7-20 June 2016.
2.	Attended guest lecture on <b>Applications Of Advanced Imaging Software- APHELION DEV</b> organised by Knowledge Institute Of Technology on 6 <sup>th</sup> November 2014.
3	Participated in one day seminar on <b>Discussion on resume preparation</b> organised by Knowledge Institute Of Technology, Salem on 4 <sup>th</sup> August 2014.
4	Two day workshop on <b>Towards Organization Excellence</b> organised by knowledge Institute Of Technology, Salem during 21-22 July 2014.
5	Two weeks workshop on <b>Signals And Systems</b> organised by Knowledge Institute Of Technology, Salem 2-12 January 2014.
6	Two week Faculty Development Program on <b>Advance In Medical Imaging Using Computational Intelligences</b> organised by Knowledge institute Of technology, Salem during 26 August- 7 <sup>th</sup> September 2013.
7	Participated in two week workshop on <b>Analog Electronic</b> organised by IIT, Khanpur from 4-14 June 2013.
8	Two day workshop on <b>Research Methods In Educational Technology</b> organised by Indian Institute Of Technology, Bombay on 2 <sup>nd</sup> and 9 <sup>th</sup> February 2013.
9	Attend the two days workshop on Teaching Methodology on the Name <b>WIPRO</b>

	<b>MISSION10X</b> organize by the WIPRO from 6 & 7 June2011.
10.	Attend the Fourteen days' workshop on Pedagogy for Online and Blended Teaching-Learning Process organised by IIT Bombay.

<b>A09</b>	<b>Special Lectures Delivered</b>
1.	Special Lecture on "Video Image processing" at TEQIP-II sponsored Faculty Development Programme on <b>Advanced Techniques In Digital Signal And Image Processing Using MATLAB</b> organised by Government College Of Engineering, Salem from 7-20 June 2016.
2	Special Lecture on Mind Mapping for faculty at CSI Polytechnic College, Salem
3.	Special Lecture on TEQIP III sponsored Faculty Development Programme on "Embedded Control and Monitoring using LabVIEW" from 24.02.20 to 01.03.20 at Government college of Engineering, salem.
4.	Delivered a Special Lecture on Artificial Intelligence systems in Medical System in Atal Sponsored FDP
5.	Delivered a Special Lecture on Internet of Medical things(IoHT) in IEEE Sponsored Workshop

<b>A 10</b>	<b>Awards&amp; Recognitions</b>
<b>S.No</b>	<b>Name of the Award</b>
1.	Received Best Faculty Award from College (2017,2021) for his efficient Research work.
2.	Received Achiever Award from College (2016,2017,2018) for his efficient Project guidance & publication work.
3.	Received Achiever Award from College (2015-2016) for his contribution in TI Design contest..

<b>A11</b>	<b>Research Grants/ Projects Received</b>
1.	<b>Centralized Apartment monitoring System for Texas Instrument Innovation Challenge Contest -2017(Went to Semi-finals and won Cash prize of Rs.20000)</b>
2	<b>Soil Tester for Texas Instrument Innovation Challenge Contest -2017(Went to Semi-finals and won Cash prize of Rs.20000)</b>
3	<b>Received project Fund Rs10,000 by Texas Instruments for WEBENCH DESIGN CONTEST 2015-2016</b>

<b>A12</b>	<b>Programs Organized</b>
1.	Acted as a coordinator for organizing IEEE Madras section sponsored two days" workshops on "Next generation wireless networks" on 16th and 17th December 2011.
2.	Acted as a Coordinator for organizing one day seminar on "Role of integrated chips in leveraging green technologies" Sponsored by IEEE Madras section 19th October 2013
3	Organized guest lecture on Engineering Appliances using Embedded Systems at knowledge Institute of Technology, salem
4	Organized the events for Industry Institute Training Program for Industry Vertical Club - FORCE Club ( 2013 - Till date )

<b>A13</b>	<b>Universities Visited</b>
1.	Anna University, Chennai, Coimbatore
2.	VIT University, Vellore
3.	Amrita University - Coimbatore
4.	Annamalai University - Chidambaram
5.	Sri Sathya Sai University, Madhya Pradesh Bhopal