

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY PROFILE

Name	:	Dr. A. Valanarasi	
Designation	:	Associate Professor	
Contact Address	:	Department of ECE, Syed Ammal Engineering College, Ramanathapuram	
Contact Mobile No.	:	9994607408, 9597639408	
Email id	:	valansaec@gmail.com, valanvaz@syedengg.ac.in	
Area of Interest	:	Medical Antennas, Embedded Systems, Cryptography and Network Security	

Qualification

- B.E. (Electronics and Communication Engineering)
- M.E. (Applied Electronics)
- Ph.D. (Information and Communication Engineering) – Area of Research: Implantable Antennas

**Topic: Certain Investigations in the Design of Implantable Antennas for Medical Applications
(Highly Commended)**

Experience

- 03.07.2000 to 02.07.2007 : Lecturer – Syed Ammal Engineering College
- 03.07.2007 to 30.06.2012 : Assistant Professor – Syed Ammal Engineering College
- 01.07.2012 to Till date : Associate Professor – Syed Ammal Engineering College

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

Publications in Conferences:

- **Valanarasi**, “High Quality Image Restoration using Combined Demosaicing and Denoising”, National Conference on Advanced Techniques in Instrumentation, Control & Communication Engineering sponsored by DRDO, Jan 2007.
- **Valanarasi**, “High Quality Image Restoration using Combined Demosaicing and Denoising”, National Conference on Emerging Trends in Technology” Chennai, March 2007.
- A. Deepa and **Valanarasi** “Performance Analysis of Input Vector Monitoring Concurrent Built-in Self Repair Diagnosis” National Conference on Recent Trends in Instrumentation Applications:”, Koilpatti, Feb 2015.
- **A.Valanarasi**, Dr. R. Dhanasekaran, "A review on Design Considerations of Implantable Antennas" IEEE International Conference on Advanced Communication, Control and Computing Technologies, May 2016.
- S. M.H. Sithi Shameem Fathima, **A. Valanarasi**, " Human Gait Recognition using RVM Classifier" IEEE International Conference on Advanced Communication, Control and Computing Technologies, May 2016.
- **A. Valanarasi**, G. Deepika “Design of static Noise Margin free Low power 6T SRAM cell” AICTE sponsored International Conference on Nanotechnology : IDEAS, INNOVATIONS & INITIATIVES , 12 to 14th December 2019
- **A. Valanarasi**, J. Preethi Pilomina, ‘Face Recognition for ATM Security System” ,International Conference on Nano Robotics and Artificial Intelligence for Engineering Applications (ICRAI 2020)., 11.9.2020 to 12.09.2020.
- N.Nagasoundari ., S.M.H. Sithi Shameem Fathima, **A. Valanarasi**,” Design of Approximate Adders for low energy Application using QCA.”, 9th International Conference on emerging trends in Engineering and Technology(ICETET’22) held on 29 & 30 April 2022.

Paper Publication in Journals:

- Valanarasi, “Early Diagnosis of Parkinson’s Disease based on Transcranial Sonography”, Digital Library URI : <http://www.ijcaonline.org/archives/volume69/number5/11839-7567> , ISBN : 973-93-80874-65-9
- Valanarasi, “Diagnosis of Hypo and Hyperthyroid Using MLPN Network” in IJIRSET, Volume 3, Issue 7, July 2014
- Deepa and Valanarasi “Performance Analysis of Input Vector Monitoring Concurrent Built-in Self Repair Diagnosis” International Journal of Applied Engineering Research " Special issue Volume No 10, Issue No 55, June 2015.
- A. Valanarasi and R. Dhanasekaran, Performance evaluation on effect of FSS-EBG structures on CSRR telemetry antenna, Materials Today: Proceedings, pp.321-
<https://doi.org/10.1016/j.matpr.2020.03.181>
- A. Valanarasi and R. Dhanasekaran, Design and analysis of CPW fed flexible CSRR patch antenna for ISM band, Materials Today: Proceedings,
<https://doi.org/10.1016/j.matpr.2020.03.183>

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

- A. Valanarasi and R. Dhanasekaran, "Optimum Band ϵ shaped Miniature Implantable Antennas for Telemetry Applications", **IEEE Transaction on Antennas and Propagation**, Volume: 69, Issue: 1, pp: 55-63, Jan 2021. Doi: [10.1109/TAP.2020.3008622](https://doi.org/10.1109/TAP.2020.3008622)

Funds Raised: Nil

As Resource Person:

- Resource Person for Guest Lecture titled "Real Time Operating System" on 25/03/2013 at Syed Ammal Engineering College, Ramanathapuram for final year students.
- Resource Person for Guest Lecture on "Verilog/VHDL code Simulation using Cadence Tool" on 17/03/14 at Syed Ammal Engineering College, Ramanathapuram for third year students.
- Third day (09/06/2017) Resource person for FDP on "Signals and Systems" at Syed Ammal Engineering College, Ramanathapuram.
- Fourth day resource person in Distinctive Webinar Series on "Issues And Challenges in Advanced Electronics And Communication And Technology" conducted Syed Ammal Engineering college, Ramanathapuram, .on July 9th 2020: (Topic: Issues and Challenges in the design of Implantable/Wearable Antennas")
- Resource Person, handled a session on 15.03.2021 for One Day ISTE sponsored Hands On Training with Arduino Microcontroller.
- Resource Person, handled a session on 04.05.2022 for One Day Hands On Training with Arduino Microcontroller.

Details of Training undergone:

- Participated one day online training on "IEEE XPLORE" on 5-4-2023 Organized by Syed Ammal Engineering College.
- Participated one day awareness program on "Sexual Harassment of women at work place" Conducted by POSH Cell of Anna University , Madurai Zone on 5th Dec 2022
- Participated Three Days Online Workshop on "Research issues in Nano Antennas for Wireless Communication" organized by Mepco Schlenk Engineering College, Sivakasi, from 17/02/2022 to 19/02/2022.

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

- Participated CSIR Sponsored Two-Day National Level Online Seminar on “Modern Techniques in Biosensors for Environmental and Clinical Analysis” organized by Siddarth Institute of Engineering & Technology (Autonomous), Puttur, from 18.02.2022 & 19.02.2022.
- Participated Online Webinar on “ IEEE Explore” Organized by Syed Ammal Engineering College, on 27th October 2021.
- Participated AICTE Sponsored Six Days Short Term Training Programme on “Soft Computing Techniques in Engineering Applications” conducted by Syed Ammal Engineering college, Ramanathapuram. From July 20th -27th2020.
- Participated AICTE Sponsored Six Days Short Term Training Programme on “Antenna Design and Analysis using Mathematical Solvers” conducted by Aditya Institute of Tech And Management from July 27th 2020
- Participated AICTE Sponsored Six Days Short Term Training Programme on “Potential Benefits of RFID in Industry Medical and science sectors ” conducted by Syed Ammal Engineering College, Ramanathapuram. from Nov 23rd to 28th 2020
- Participated Online Training Program on “ FREQUENCY SELECTIVE SURFACE USING HFSS” Organized by IEEE – Bangalore section associated with Entuple Technologies on 19 May 2020
- Participated Online Training Program on “SAR ANALYSIS USING HFSS” Organized by IEEE – Bangalore section associated with Entuple Technologies on 21st May 2020
- Participated in One day faculty orientation programme on soft skills and understanding the student psychology of current generation students organized by Syed Ammal Engineering College on 09/12/2019.
- Participated in three days technical workshop on “ RF communication system design with CAD tools held at Mepco Schlenk Engineering College, Sivakasi, during November 20-22, 2019.
- Participated in two days Seminar on “ Advancements in Antennas”at Kongu Engineering College, Perundurai, during 20th and 21st September 2019
- One day Capacity Building Workshop for professors on Personality, Profession & Passion at Syed Ammal Engineering College, Ramanathapuram on 25.6.2019
- Participated in One-day National Level Workshop on How to Write Good scientific Project Proposals organized by Syed Ammal Engineering College On 4th August 2018
- Participated in Scilab Training organized at Syed Ammal Engineering College, Offered by spoken tutorial project,IIT Bombay, during June 2017
- Participated in a seminar on “How to be an Interesting and Inspiring Teaching Professional?” at Syed Ammal Engineering College, Ramanathapuram on 20.08.2016
- Participated in one day faculty development training programme on modern tool usage in teaching” at Syed Ammal Engineering College, Ramanathapuram on 13.12.2016
- Participated in One Day Workshop On Advanced Switching Circuits Design using Cadence Tool” at Syed Ammal Engineering College, Ramanathapuram on 03.03.2017
- Participated Seven days’ Workshop on “ 1D and 2D Processing using Matlab and GUI” from 14/12/2015-19/12/2015 at Kamaraj College of Engineering and Technology, Viruthunagar

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

- Participated Two days Training Programme on “CADENCE Tool” from 11/11/2013 -12/11/2013 at Syed Ammal Engineering College, Ramanathapuram.
- Participated a Workshop on "HFSS (High Frequency Structure Simulator)" on 27/7/2012 at Vellammal Engineering College, Madurai
- Participated National Seminar on “Recent advances in Electronics and Instrumentation for Oncological Detections” from 28/11/2012-29/11/2012 at Sethu Institute of Technology, Kariapatti
- Participated in One day National Seminar on ‘How to succeed in your PHd’ on 13/01/2012 at Syed Ammal Engineering College, Ramanathapuram.
- Participated in SELF AWARENESS PROGRAMME on 08/10/2009 at Syed Ammal Engineering College, Ramanathapuram.
- Participated in Workshop on “VLSI Design flow- An industrial practice using Cadence Tools” from 17/9/2008 -19/9/2008 at KLN College of Engineering, Madurai
- Completed ISO 9000:2000 series Internal Quality Auditor training course conducted on 16.08.2008 by SHAH Consultancy at Syed Ammal Engineering College, Ramanathapuram.
- Completed training on train the trainer programme on 30.08.2008 organised by Sutherland global services.
- Participated in Workshop on “VLSI system design” on 28/9/2007 & 29/09/2007 at National Engineering College, Kovilpatti

Details of FDP undergone:

- Participated AICTE Training And Learning Academy Five days online FDP on “Biomedical Instrumentation Innovation Design and development” *_Shri Govindram Seksaria Institute of Technology and Science*, Indore, Madhya Pradesh, India, from 31/01/2022 to 04/02/2022.
- Participated AICTE Sponsored STTP on “Artificial Intelligence and Deep learning for Computational biology” organized by Department of Computer Science and Engineering, PSNA College of Engineering and Technology, DIndigul, TN, from 01 February 2021 to 06 February 2021. Participated Two days Online FDP on “ Micro-strip Antennas for Advanced Wireless Communication” conducted by Kallam Karanadha Reddy Institute of Technology, Kakinada, in association with IETE Vijayawada section during 15th – 16th May
- Participated Online five days FDP on “Deep Neural Networks and Expert Systems” conducted by P.S.R. Engineering College, Sivakasi, in collaboration with IETE Student Chapter, during 25 - 29, May 2020
- Participated National Level Online three days FDP on “Embedded and IOT Boot-camp” The Department of Electronics and Communication Engineering., Mohamed Sathak A J Engg. college., Chennai during 27th May to 29th May.

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

- Participated Five days FDP Antenna and Microwave Engineering, conducted by Sri Ramakrishna College of Engineering and Technology, Trichy, during June 8th to 12th June 2020
- Participated Five days FDP on Cybersecurity, Malla Reddy Engineering College for women, Hyderabad, during June 10th to June 14th 2020
- Participated Five days FDP Antenna and Microwave Engineering, conducted by Sri Ramakrishna College of Engineering and Technology, Trichy from June 8th to June 13th 2020
- Participated Five days FDP on Cybersecurity, conducted by Malla Reddy Engineering College for women, Hyderabad from June 10th to June 14th 2020
- Participated Three days online FDP On “RF/VNA & its applications” conducted by ENTUPLE , ANRITSU, from June 16th to 18th
- Participated Three Days Online Faculty Development Program on Machine Learning and Artificial Intelligence” Conducted by COMPUTER SOCIETY OF INDIA, KANCHEEPURAM CHAPTER from June 25th to 27th
- Participated Three days Online FDP on “Industrial IOT & Intelligent Connectivity using RASBERRY PI” conducted by Malla Reddy Engineering College for Women in association with Pantech e-Learning, Chennai, from June 25th to 27th 2020.
- Six days FDP on control system – EC 8391 at Syed Ammal Engineering College, Ramanathapuram, during 20.05.2019-25.5.2019
- Attended 10 days Faculty Development Programme (Online Course) Conducted by NPTEL .
- Participated in One week Faculty Development Programme on Research Issues in Antenna Design for Wireless Applications” at Mepco Schlenk Engineering College, Sivakasi from Nov 27 to Dec 1 2017.
- Six days FDP on Signals and system – EC 6303 at Syed Ammal Engineering College, Ramanathapuram on 07-06-2013 to 13-06-2017
- Participated in one day FDP on “How to be an Interesting and Inspiring Teaching Professional” at Syed Ammal Engineering College on 28.08.2016.
- Participated in one day FDTP on “Modern Tool Usage in Teaching” at Syed Ammal Engineering College on 13.12.2016
- Participated in TEQIP sponsored Two days FDP on Computer Aided Analysis of Electronic circuits- Algorithm and Computational techniques" from 21/11/2013 – 22/11/2013, at Thiagarajar College of Engineering, Madurai.
- Participated in FDP on Research Methodology on 28.8.2011 at Syed Ammal Engineering College, Ramanathapuram.
- Participated in FDP on Research Methodologies on 16.04.2010 to 17.04.2010 at Syed Ammal Engineering College, Ramanathapuram.

Additional courses

- “Antennas” 12 week course Jan –April 2019, with score 75% Elite Silver

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

- 12week course on “ Fuzzy sets, Logic and systems & Applications Jan – April 2020 with score of 94% (Covid 19 Impacted Jan Semester)
- 12 week course on “Electromagnetic Theory” Oct – Nov 2022 with score of 52%.
- 12 week course on “ Cryptography and network Security” Oct – Nov 2022 with a score of 82% (Elite with Silver)
-

Details of Seminars /workshops organized

- Co-Coordinator for Six Days AICTE sponsored STTP on Soft Computing Techniques in Engineering Applications (20.07.2020 – 25.07.2020 Phase I).
- Co-Coordinator for Six Days AICTE sponsored STTP on Soft Computing Techniques in Engineering Applications (10.08.2020 – 16.08.2020 Phase II).
- Co-Coordinator for Six Days AICTE sponsored STTP on Potential Benefits of RFID in Industrial, Medical and Domestic Sectors (23.11.2020 – 28.11.2020 Phase I).
- Coordinator for Six Days AICTE sponsored STTP on Potential Benefits of RFID in Industrial, Medical and Domestic Sectors (21.12.2020 – 27.12.2020 Phase II).
- Co-ordinator for Two days Hands on Training Programme with Arduino Micro controller at Syed Ammal Engineering College during 3rd and 4th January 2019
- Organizing Committee member for one day workshop on “Advanced Switching Circuits Design using Cadence Tool” on 3/03/2017 for PG and III ECE students.
- Organizing committee member for one day workshop on “Recent Trends and Challenges in Communication and Networking Using CISCO Packet Tracer.

Details of National/International Seminars organized

- **Registration Cell , and Event in-charge for the National Level Technical Symposium INNOWAVE 2020, Organized by Department of ECE on Jan 31st 2020.**
- **Information and Registration cell In-charge** for the National Symposium **ERRAZLES '11** organized by Department of ECE, SAEC, Ramanathapuram.
- **Information and Registration cell In-charge** for the National Symposium **ERRAZLES '12** organized by Department of ECE, SAEC, Ramanathapuram.
- **Information and Registration cell In-charge** for the National Symposium **ERRAZLES '13** organized by Department of ECE, SAEC, Ramanathapuram.
- **Event Coordinator** for the National Symposium **ERRAZLES '13** organized by Department of ECE, SAEC, Ramanathapuram on Apr 11 & 12, 2013.
- **Staff Advisor** for the National Symposium **ERRAZLES '08** organized by Department of ECE, SAEC, Ramanathapuram.
- **Staff Advisor** for the National Symposium **ERRAZLES '11** organized by Department of ECE, SAEC, Ramanathapuram.

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

- **Executive Committee Member** and Session chair for ICAAET'15, an International Conference on Advances in Applied Engineering and Technology conducted on 14th – 16th May 2015.

Acted as a reviewer in the following international journals and conferences

- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '12)
- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '14)
- International Conference on Advances in Applied Engineering and Technology (ICAAET'15)
- International Conference on Advanced Communication Control & Computing Technologies (ICACCCT '16)
- Acted as a reviewer for one paper in International Journal “ Transaction on Antennas and Wave Propagation “ Oct 2023

Patent Received

1. Detecting Face Mask and Dictating No mask customers to wear it using Deep Learning Technique in Shopping Mall, Application No. 202241009503, and Publication Date: 04/03/2022.
2. “An Intelligent fast compost generator Bin with Automatic Segregation of Kitchen Waste” Patent number : 202141001745 A, Publication Date: 22/01/2021
3. Australian Grant for the title , An Efficient System And Methodology To Monitor The Diagnostic Laboratory Report On Cloud., Patent number: 2020101378., Eight years from 16 July 2020.

Membership/Fellowship in Professional bodies

- Life member – **ISTE**
- Life member – **IETE**
- Annual member – **IEEE**

Google Scholar Profile: <https://scholar.google.com/citations?user=HM4HD-sAAAAJ&hl=en>

LinkedIn Profile: https://www.linkedin.com/feed/?trk=guest_homepage-basic_nav-header-signin

SYED AMMAL ENGINEERING COLLEGE

(An Autonomous Institution)



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited with 'A+' Grade by NAAC

NBA Accredited UG Courses : CSE & MECH | Anna University Approved Research Centres : ECE, EEE, CSE & MECH

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502 Tamilnadu.



Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877 | E-mail : office@syedengg.ac.in | Web : www.syedengg.ac.in

Signature

(Mrs. A. Valanarasi)