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CRITERIA III

RESEARCH, INNOVATIONS AND EXTENSION

KEY INDICATOR 3.3 – RESEARCH PUBLICATIONS AND AWARDS

**3.3.3 NUMBER OF BOOKS AND CHAPTERS IN EDITED VOLUMES/BOOKS
PUBLISHED AND PAPERS PUBLISHED IN NATIONAL/ INTERNATIONAL
CONFERENCE PROCEEDINGS PER TEACHER DURING YEARS**



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CONSOLIDATED LIST OF BOOKS / PAPERS PUBLISHED

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3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during years

CONSOLIDATED LIST OF BOOKS / PAPERS PUBLISHED

S. No	Title of the Book / Paper	Name of the Author	Department of the Author
1.	Fundamentals of Digital Image Processing	Dr.M.Poonguzhali Mr.S.Sabarinathan	ECE
2.	VLSI Design Laboratory	Dr.M.Poonguzhali Mr.S.Sabarinathan Mr.A.Jagadeeswaran Mrs.Valarmathi	ECE
3.	Renewable Energy Systems Laboratory	Dr.K.Arutselvam Mr.C.Suresh Mr.M.Dhineshkumar Mr. P.Sathyanarayanan	EEE
4.	Electrical Machines Laboratory	Mr.C.Suresh Mr.S.Govindasamy Mr.R.Yuvaraj Mr.C.Srinivasan	EEE
5.	Electronics Lab	Dr.K.Arutselvam Mr.C.Srinivasan Mr.S.Govindasamy	EEE
6.	Physics Laboratory	Dr.M.Geetha Dr.A.Srithar	S&H
7.	Chemistry Laboratory	Dr.M.Gowdhamamoorthi Mrs.S.Kalaivani	S&H

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8.	Data Structures Laboratory	Mrs.S.M.C.Subashini Mr. R. Rajamonsingh Mrs.P.Sudhapriya Mrs.B.Sasikala	CSE
9.	Object Oriented Programming Laboratory	Mr.D.Jayaprakash Mr.S.J.Deebak Mrs.K.Manjuparkavi Mrs.K.Gokila	CSE
10.	FOSS & Cloud Computing Laboratory	Mr.I.Anbumuthu Mr.M.Prakashkumar Mr.R.Makendran Mrs.S.Sasikala	IT
11.	Manufacturing Technology I - Lab Manual	Dr.V.Munusami Mr.M.Umashankar Mr.D.Sivakumar Mr.S.Sasidharan	MECH
12.	Thermal Engineering Laboratory- Lab Manual	Mr.T.Sudhakar Mr.S.Srinath Mr.N.Srinivasan Mr.S.Jeevanantham	MECH
13.	Digital Systems Laboratory	Mr.S.Sivaprakasam Mr.V.Sivasakthi Mr.V.Govindraj Mr.M.Prasanth	ECE
14.	Design Fabrication and Performance Evaluation of Auto Egg Incubator by Using Solar Power	Mr.D.SIVAKUMAR	MECH
15.	Development of Design and Evaluation of Advanced Vertical Axis Wind Turbines Using Water Pump	Mr.D.SIVAKUMAR	MECH
16.	Protection For Social Security System By Using Pyroelectric IR For Surveillance Area	Mr.S.Sabarinathan	ECE

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19.	Electric Line Man Safety With Password Based Circuit Breaker And Intimation Of HT Wire Sag Using GSM	Mr.S.Sabarinathan	ECE
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24.	A Model For Yield Management In Agriculture And For Marketing The Products	Dr.M.Poonguzhali	ECE
25.	Smart Card For Enhanced Monitoring & Updation Of Medical Record	Mr.V. Govindaraj	ECE
26.	Anti-Theft Tracking And Locking For Vehicles	Mr.M.Prasanth	ECE
27.	Design of a 16 Bit Posit Multiplier With Power Efficiency	Mr.V.Sivasakthi	ECE
28.	Parallel Operation of Modular Single-phase Transformerless Grid-tied PV Inverters with Common DC Bus and AC Bus	Mrs.G.Gayathiri	EEE
29.	Single Phase Transformerless Photovoltaic Inverters	Dr.K.Arutselvan	EEE

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30.	Power Quality Improvement in Converters Using ANN	Mr.S.Govindasamy	EEE
31.	Transient Stability Minimization for UPFC Controller Using ANN	Mr.R..Sivakumar	EEE
32.	Energy and Demand Forecasting Control Using Prepaid Energy Metering Technique	R.Sowndarya	EEE
33.	Study and Grouping of Suburban Consumers Energy Behavioural Demand Using Smart Meter Information	P.Sathyanarayanan	EEE
34.	Optimal Interleaving Angle Determination In Multi Paralleled Converters Considering the DC Current Ripple and GRID Current THD	Dr.K.Arutselvan	EEE
35.	A Control Method for Voltage Oscillation Suppression Using Neutral-Point-Clamped Inverter	Mr.C.Suresh	EEE
36.	Experimental Study on Light Weight Ferrocement Beams With Various Types of Core Materials and Mesh Reinforcement	Mr.G.SATHIYARAJ	CIVIL
37.	Potential Effect of Industrial Effluent on Modern Agriculture by Using Nutrient Film Technique (NFT)	Mr.P.Govintharaj	CIVIL
38.	Emerging Technology Trends in Digital Era	Mr.M.Prakashkumar	CSE
39.	Food Reingvorate in current Model Society	Mr.S.Alaudeen Basha	CSE
40.	Spatio-Temporal Encoder and Decoder for Real Time Surveillance video based abnormal Activity Detection Using Deep Learning	Mr.D.Jayaprakash	CSE
41.	A secure and efficient Mailing System for Intra-network communications using Web technologies	Mrs.S.M.C.Subashini	CSE

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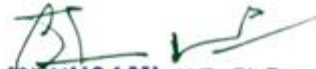
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42.	Analysis of Fruits Disease Spotting system for Agricultural Applications using K-means Clustering Algorithm	Mr.M.Prakashkumar	CSE
43.	Differential Diagnosis for Autism Spectrum Disorder and Mental Retardion using Machine Learning Techniques	Mr.D.Jayaprakash	CSE
44.	Enlisting to assist exigency and Detecting calamity using Sentimental Analysis in Mobile Application	Mr.M.Prakashkumar	CSE
45.	Real Time Voice Cloning with minimal samples using Siamese Neural Network	Mr.I.Anbumuthu	CSE
46.	Sign Language Recognition and Transition using Computer Vision Algorithm	Ms.G.V.Kanomozhili	CSE
47.	Smart Alarm System for Corporation Water Flow and Water Wastage using IOT	Mr.R.Sivaguru	CSE



Dr. V. MONUSAMI, M.E., Ph.D.,
PRINCIPAL
Narasu's Sarathy Institute
of Technology
Poosaripatty, Salem - 636 305.



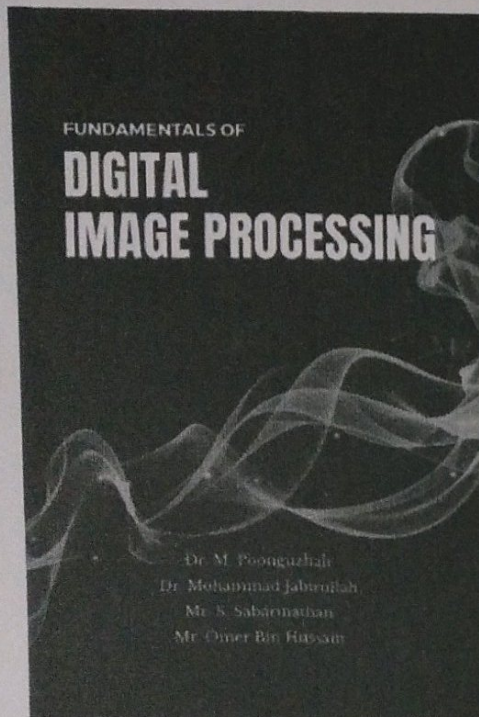
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LIST OF BOOKS PUBLISHED



FUNDAMENTALS OF DIGITAL IMAGE PROCESSING

Author Name: [M. Poonguzhali, Mohamm...](#) | Format: Paperback | Genre: [Educational & Professional](#) | [Other Details](#)

The principal objectives of the book continue to be to provide an introduction to basic concepts and methodologies for digital image processing, and to develop a foundation that can be used as the basis for further study and research in this field. To achieve these objectives, we focused again on material that we believe is fundamental and whose scope of application is not limited to the solution of specialized problems. The mathematical complexity of the book

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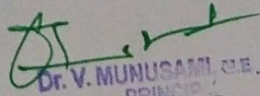
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The Author:



Dr.M.Poonguzhali M.E.,Ph.D, graduated B.E. degree in Electronics and Communication Engineering from Government College of Technology, Coimbatore, in the year 1997 and Master of Engineering in Applied Electronics in 1999. She obtained her Ph.D. degree in the area of Grid Computing from Anna University, Chennai in 2014. She has 20 years of teaching experience and presently she is a Professor & Head in the department of Electronics and Communication Engineering, Narasu's Sarathy Institute of Technology, Salem. She has published more than 30 research papers in National and International Conference and Journals. She is a life member in IETE, member of IEEE and IFERP. Her areas of interest include Grid Computing, Mobile ad hoc networks, Digital Signal Processing, Image Processing, Antennas and Cognitive Radios.

Email id: poonguzhali.m@nsit.edu.in



Mr.S.Sabarinathan M.E.,(Ph.D), is an Assistant Professor of Electronics and Communication Engineering, Narasu's Sarathy Institute of Technology. He has 9 years of Academic experience. He has authored several publications in reputed IEEE International Journals and UGC. He has presented various research papers in National and International conferences. He guided UG and PG Scholars for research project funded by TNSCST and UGC, India. His areas of interest include Medical Image Processing, Digital Signal Processing, Image Processing, Antennas and Embedded System.

Email id: sabarinathan.s@nsit.edu.in



Mr. A. Jagadeeswaran M.E., MISTE, is presently working as an Assistant Professor in Department of Electronics and Communication Engineering, Narasu's Sarathy Institute of Technology. He has eight years of teaching experience. He has acted as a resource person in Board of Studies for syllabus framing in Autonomous Institutions. He has published more than 10 research papers in National and International conferences and Journals. His area of interest in Low power VLSI, Cad for VLSI and SoC & NoC.

Email id: jagadeeswaran.a@nsit.edu.in



Mrs.M.Valarmathi M.E., is an Assistant Professor of Electronics and Communication Engineering, Narasu's Sarathy Institute of Technology. She has authored several publications in reputed IEEE, International Journals and UGC. She has presented various research papers in National and International conferences. Her area of interest are Digital Electronics, Signals and Systems and Digital signal Processing.

Email id: valarmathi.m@nsit.edu.in

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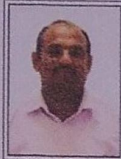
EDITION
2021

VLSI DESIGN LABORATORY

VLSI DESIGN LABORATORY

Dr.M.Poonguzhali
Professor / Dept. Head ECE
Mr.S.Sabarinathan
Assistant Professor
Mr. A. Jagadeeswaran
Assistant Professor
Mrs.M.Valarmathi
Assistant Professor

The Author:



Dr.K.Arutselvan M.E,Ph.D, is an Associate Professor in Department of Electrical and Electronics Engineering, Narasu's Sarathy Institute of Technology, Salem. He has 13 years of academic experience. He has published various papers in reputed National and International Journals in the area of Electrical and Electronics Engineering. He has expertise in a specialized area that involves Electrical Machines, Embedded System, VLSI Design and Development. He is engaged with teaching various under graduate and post graduate level courses and has guided many projects at PG/UG level. He received funds from TNSCST, CSIR, and ICSSR for organizing seminar and workshops. He acts as a resource person for various seminar, workshop and FDPs.

Mail-id: arutselvan.k@nsit.edu.in



Mr.C.Suresh M.E, is an Assistant Professor, of Electrical and Electronics Engineering, Narasu's Sarathy Institute of Technology, Salem, He has 15 years of experience in the field of Power System Engineering. He has published papers in various international and National journals and conferences. His research interests include Transmission and Distribution, High Voltage Engineering, Power System Analysis and Power System Operation and Control.

Mail-id: suresh.c@nsit.edu.in



Mr. M.Dineshkumar M.E, is presently working as an Assistant Professor in Department of Electrical and Electronics Engineering, Narasu's Sarathy Institute of Technology, Salem. He has eight years of teaching and industrial experience. He is published national and International Journal and Conference. He has expertise in electrical machines and power Electronics.

Mail-id: dineshkumar.m@nsit.edu.in



Mr. P. Sathyanarayanan M.E, is presently working as an Assistant Professor in Department of Electrical and Electronics Engineering, Narasu's Sarathy Institute of Technology, Salem. He holds Bachelor of Engineering in Electronics and Instrumentation Engineering from Government College of Technology, Coimbatore and Master of Engineering in Power Electronics and Drives. He has published papers in various reputed National and International Journals in the area of Electrical and Electronics Engineering. He has Six years teaching experience in various subjects of Electrical and Electronics Engineering.

Mail-id: sathyanarayanan.p@nsit.edu.in

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RENEWABLE ENERGY SYSTEMS Laboratory

Dr.K.Arutselvan
Associate Professor / Dept. Head EEE
Mr.C.Suresh
Assistant Professor/EEE
Mr.M.Dineshkumar
Assistant Professor/EEE
Mr.P.Sathyanarayanan
Assistant Professor/EEE



Renewable Energy Systems Laboratory

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The Author:



Mr.C.Suresh M.E, is an Assistant Professor, of Electrical and Electronics Engineering, Narasu's Sarathy Institute of Technology, Salem , He has 15 years of experience in the field of Power System Engineering. He has published papers in various international and National Journals and conferences. His research interests include Transmission and Distribution, High Voltage Engineering, Power System Analysis and Power System Operation and Control.

Mail-id:suresh.c@nsit.edu.in



Mr.S.Govindasamy M.E, is presently working as Assistant professor in Electrical and Electronics Engineering Department of Narasu's Sarathy Institute of Technology, Salem, India. He has 13 years of academic and industrial experience in India and abroad. He had authored publications in National and international Journals. He has expertise in area of Power Electronics & Drives, Microcontrollers and Embedded Systems.

Mail-id: govindasamy.s@nsit.edu.in



Mr. R.Yuvaraj M.E., is presently working as an Assistant Professor in Department of Electrical and Electronics Engineering, Narasu's Sarathy Institute of Technology, Salem. He has 12 years of teaching and industrial experience. He is presented National and International conference. He is received fund from TNSCST student project scheme. He is specialized in Electrical Machines & Power systems.

Mail-id:yuvaraj.r@nsit.edu.in



Mr.C.Srinivasan M.E, is an Assistant professor of Electrical and Electronics Department, Narasu's Sarathy Institute of Technology, Salem. He has eleven years of academic experience. He has published papers in various reputed National and International Journals in the area of Electrical and Electronics Engineering. He is specialized in smart grid and Renewable energy sources. He guided number of projects for Under graduate / Post graduate students. He is received funds from Anna University for organizing faculty development programme. He acts as a resource person for workshop and guest lecture on core topics.

Mail-id:srinivasannsit@gmail.com

Dr. V. MUNUSAMI, M.E., Ph.D.,
PRINCIPAL
Narasu's Sarathy Institute of Technology,
Kadayanallur (TK), Oranjanipatti,
Salem-636 005.



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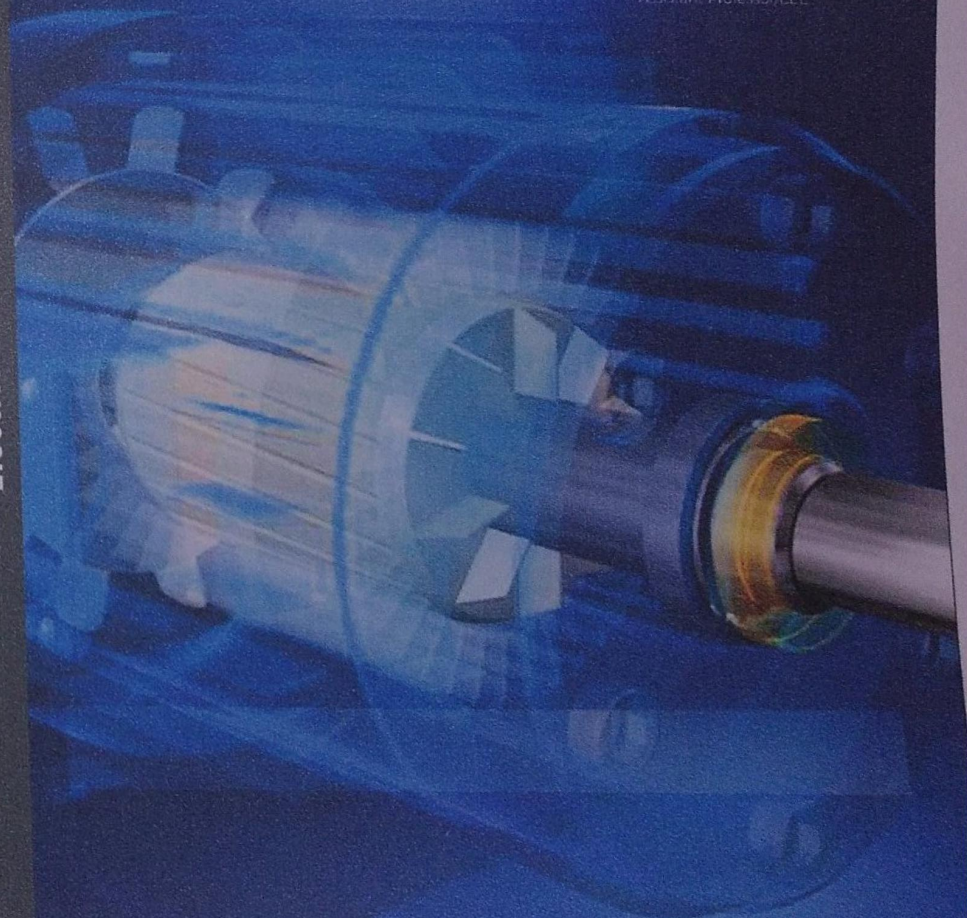
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Assistant Professor/EEE
Mr.C.Srinivasan
Assistant Professor/EEE

Electrical Machines Laboratory



The Author:



Dr.K.Arutselvan M.E,Ph.D, is an Associate Professor in Department of Electrical and Electronics Engineering, Narasu's Sarathy Institute of Technology, Salem. He has 13 years of academic experience. He has published various papers in reputed National and International Journals in the area of Electrical and Electronics Engineering. He has expertise in a specialized area that involves Electrical Machines, Embedded System, VLSI Design and Development. He is engaged with teaching various under graduate and post graduate level courses and has guided many projects at PG/UG level. He received funds from TNSCST, CSIR, and ICSSR for organizing seminar and workshops. He acts as a resource person for various seminar, workshop and FDPs.

Mail-id: arutselvan.k@nsit.edu.in



Mr.C.Srinivasan M.E, is an Assistant professor of Electrical and Electronics Department, Narasu's Sarathy Institute of Technology, Salem. He has eleven years of academic experience. He has published papers in various reputed National and International Journals in the area of Electrical and Electronics Engineering. He is specialized in smart grid and Renewable energy sources. He guided number of projects for Under graduate / Post graduate students. He is received funds from Anna University for organizing faculty development programme. He acts as a resource person for workshop and guest lecture on core topics.

Mail-id: srinivasannsit@gmail.com



Mr.S.Govindasamy M.E, is presently working as Assistant professor in Electrical and Electronics Engineering Department of Narasu's Sarathy Institute of Technology, Salem, India. He has 13 years of academic and industrial experience in India and abroad. He had authored publications in National and international Journals. He has expertise in area of Power Electronics & Drives, Microcontrollers and Embedded Systems.

Mail-id: govindasamys@nsit.edu.in

15/02/22
Dr. V. MUNUSAMI, M.E., Ph.D.,
PRINCIPAL
Narasu's Sarathy Institute of Technology,
Kadugudi, Poosaripatti (Tk), Salem-636 305.



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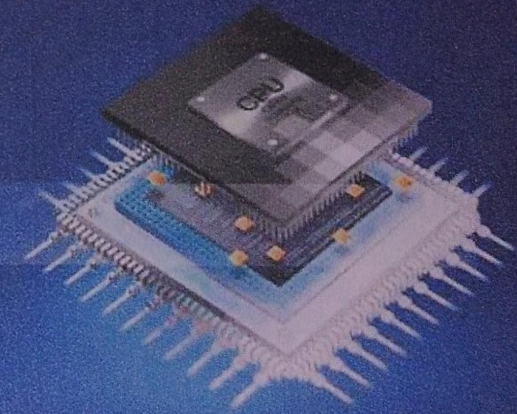
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Assistant Professor/EEE



The Author:

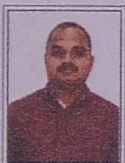


Dr. M. Geetha, Assistant Professor of Physics, Narasu's Sarathy Institute of Technology, Salem. She has completed Bachelor degree in Government Arts College for Women, Salem, Master Degree in Periyar University, she completed her Master of Philosophy degree in Periyar University. She got University 4th rank in her Master Degree. She was awarded Doctor of Philosophy from the Department of Physics, Periyar University, Salem in 2014.

Her area of research includes synthesis of nanostructure material for dye solar cell and density functional theory for energy applications.

She has 9 years of teaching experience and 12 years of research experience. She has published more than 10 journals in peer reviewed national and international journals in the area of solar energy. She has attended various national and international conferences and also acted as a resource in various seminars and conference. She published a book on "Engineering Physics" R-2017, Charulatha Publication in 2018.

Email ID: geetha.m@nsit.edu.in



Dr. A. Srithar is presently working as Associate Professor of Physics, Narasu's Sarathy Institute of Technology, Salem. He completed B.Sc., in Physics from Periyar University, Salem, in 2005, M.Sc., in Physics from Bharathidasan University, Trichy, in 2007, M.Phil, in Physics from Bharathiar University, Coimbatore, in 2008 and Bachelor of Education in Physical Science from Tamilnadu Teacher Education University, Chennai, in 2009. He was awarded Ph.D in the Department of Physics in 2018 by Anna University, Chennai.

He has started his academic career in the year 2009 and he has 11 years of experience in teaching field. He has published more than 10 papers in peer reviewed journals and international conferences. He has pioneered research in waste water treatment, food safety technology and removes pollutant water treatment emit out from industry.

He is a life member of Indian Society for Technical Education (ISTE), New Delhi.

Email ID: srithar.a@nsit.edu.in

Dr. V. Munusami, M.E., Ph.D.,
PRINCIPAL
Narasu's Sarathy Institute of Technology,
Kadayampatti (TK) Poonasarpatti,
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Assistant Professor / Physics
Dr. A. Srithar
Associate Professor / Physics

Engineering Physics Laboratory Manual



The Author:



Dr. M. Gowdhamamoorthi is a Professor of Chemistry, Narasu's Sarathy Institute of Technology, Salem. He has Completed Bachelor degree in Erode Arts and Science College, Erode and his Master Degree in Presidency College, Chennai. His Doctorate in University of Madras, Chennai. Bachelor of Education degree in Sri Vasavi College of Education. He has 9 years of academic experience. He has published 11 journals in various reputed National and International Journals in the area of Electro Chemistry. He has attended number of conference in National and International Level. He has guided number of projects for UG students. He received IARDO-Young Scientist Award in the year of 2018. He has Published Engineering Chemistry and Environmental Science and Engineering books. He acted as a resource person for various seminar, workshop and FDPs.
Mail-id: gowthamamoorthy.m@nsit.edu.in



Mrs. S. Kalaivani, Assistant Professor, Department of Chemistry, Narasu's Sarathy Institute of Technology, Salem. She got University 7th Rank in M.Sc. at Periyar University, Salem and First class with Distinction in B.Sc. She has 5 years of academic experience in various organizations. She has published Paper in International Journals in the area of Inorganic Chemistry. She has attended number of conference in National Level.
Mail-id: kalaivani.s@nsit.edu.in

Dr. V. Munusami, M.E., Ph.D.,
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Short Procedures
Viva-Voce Q & A

Dr. M. Gowdhamamoorthi
Professor / Dept. Head Science and Humanities
Mrs. S. Kalaivani
Assistant Professor

ENGINEERING CHEMISTRY LAB MANUAL



The Author:



Mrs. S.M.C. SUBASHINI B.Tech., M.E., (Ph.D.) is an Assistant Professor in the Department of Information Technology at Narasu's Sarathy Institute of Technology, Salem. She is pursuing Ph.D in the Department of Computer Science and Engineering at Anna University, Chennai. Her current research is concerned with Big Data Analytics. She has published a book titled "Problem Solving and Python Programming". She has 9 years of teaching experience in reputed Engineering Institutions. She has published 16 papers in peer reviewed journals, and participated in various National and International Conferences. She had received fund from TNSCST for Student Project Scheme under her guidance.

Mail id: subashini.c@nsit.edu.in



Mrs. P. SUDHAPRIYA, B.Tech, M.E. is presently working as an Assistant Professor in the Department of Computer Science and Engineering, Narasu's Sarathy Institute of Technology, Salem. She has five years working experience in both teaching and Industry. She acted as a Member in Design board for the development of an e-Magazine and she is a Gold Medallist in Bachelor of Engineering. She has published several papers in peer reviewed journals and participated in various National and International conferences.

Mail id: spsudhapriya@gmail.com



Mr. R. RAJA MONSINGH, M.E is presently working as an Assistant Professor in Computer Science and Engineering Department, Narasu's Sarathy Institute of Technology, Salem. He has published several papers in International conferences. He holds Master of Engineering and Bachelor of Engineering in Anna University, Chennai. Also he has four years industrial experience in Networking Domain.

Mail id: monsingh.raja664@gmail.com



Mrs. B. SASIKALA, M.E. is presently working as an Assistant Professor in the Department of Computer Science and Engineering, Narasu's Sarathy Institute of Technology, Salem. She has eight years of experience in Narasu's Sarathy Institute of Technology, Salem. She has published several papers in journals and International Conferences.

Mail id: sasikala.b@nsit.edu.in



Mrs. P. MENAKA, M.E is presently working as an Assistant Professor in the Department of Computer Science and Engineering, Narasu's Sarathy Institute of Technology, Salem. She holds Master of Engineering in Anna University, Chennai and Bachelor of Engineering in Anna University, Coimbatore. She has published several papers in International conferences.

Mail id: menaka90sns@gmail.com



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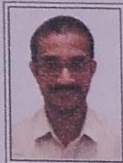
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The Author:



Mr. D. Jayaprakash is an Associate Professor in the Department of Computer Science and Engineering. He has experience in Govt. research projects. His research interest focuses on developing Artificial Intelligence (AI) based assessment and treatment applications for children with autism spectrum disorder. He currently serves as a Head of the Department in the Department of Computer Science and Engineering in Narasu's Sarathy Institute of Technology, Salem. He is Pursuing his Ph.D in Anna University, Chennai. He holds a Master of Engineering and Bachelor of Engineering in Anna University, Chennai. He has more than 13 years of Teaching and Research experience. He has Published 1 Book chapter and more than 10 Papers in International Journals. He has participated many National and International Conferences.

Email id: jayaprakash.d@nsit.edu.in



Mr. S.J Deebak M.Tech is presently working as an Assistant Professor in Department of Computer Science and Engineering, Narasu's Sarathy Institute of Technology Salem. He has thirteen years teaching and industrial experience in specialization Information Technology and software field. He has Participated in many national and international conference.

Email id: deebaks.j@nsit.edu.in



Mrs. K. Manjuparkavi is an Assistant Professor in the Department of Computer Science and Engineering in Narasu's Sarathy Institute of Technology, Salem. She holds a Master of Engineering and a Bachelor of Engineering in Anna University, Chennai. She is a Gold Medallist in Bachelor of Engineering. She has participated in many International Conferences.

Email id: manjuparkavi.k@nsit.edu.in



Mrs. T. Gokila is an Assistant Professor in the Department of Computer Science and Engineering in Narasu's Sarathy Institute of Technology, Salem. She holds Master of Engineering and Bachelor of Technology in Anna University, Chennai. She has 2 years of experience in the IT Industry in the field of Dotnet. She has published research papers in various International Journals and participated in many National and International Conferences.

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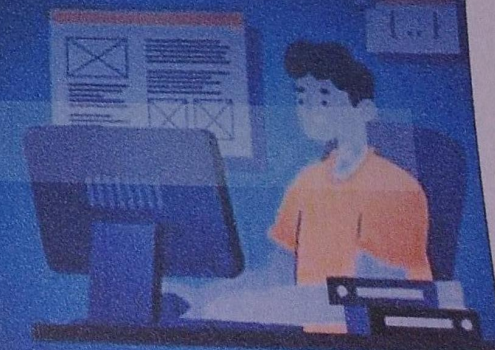


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The Author:



Mr. J. Anbumuthu is an Assistant Professor in the Department of Computer Science & Engineering in Narasu's Sarathy Institute of Technology, Salem. He holds a Master of Engineering and a Bachelor of Technology in Anna University, Chennai. He has seven years of teaching experience. He has participated in various National and International Conferences. He has published research papers in UGC Approved Journals

Mail id: anbumuthu.i@nsit.edu.in



Mr. M. Prakash Kumar M.E. is an Assistant Professor in the Department of Computer Science & Engineering in Narasu's Sarathy Institute of Technology, Salem. He has seven years of teaching experience and he is Specialized in Networking. He has participated in many National and International Conferences. He has published research papers in various International Journals. He has received fund from TNSCST for Student Project Scheme under his guidance.

Mail id: prakashkumarcseer@gmail.com



Mr. R. Makendran is an Assistant Professor in the Department of Computer Science & Engineering in Narasu's Sarathy Institute of Technology, Salem. He holds a Master of Engineering in Anna University Coimbatore and a Bachelor of Engineering in Anna University, Chennai. He has seven years of teaching experience. He has participated in many National and International Conferences.

Mail id: makendratech@gmail.com



Mrs. S. Sasikala is an Assistant Professor in the Department of Computer Science & Engineering in Narasu's Sarathy Institute of Technology, Salem. She holds a Master of Engineering in Anna University Chennai, and a Bachelor of Engineering in Anna University, Coimbatore. She has participated in two international conferences.

Mail id: s.sasiug10@gmail.com



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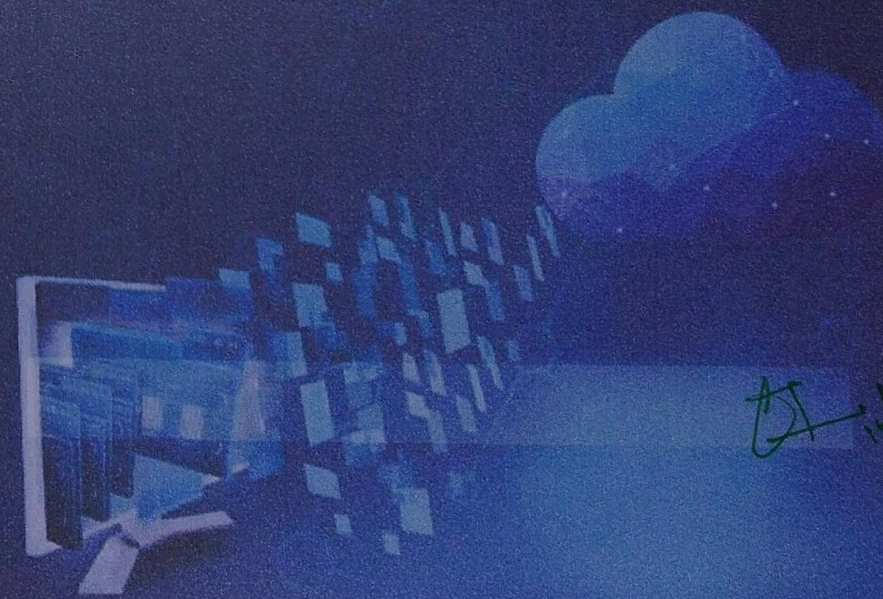
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Email: dharanscted@gmail.com



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Mr. T. SUDHAKAR, M.E., (Ph.D.), is an Associate Professor in Mechanical Engineering Department at Narasu's Sarathy Institute of Technology, Salem. He has 10 years of academic experience. He holds Bachelor of Mechanical Engineering and Masters in Advanced Manufacturing Technology from Coimbatore Institute of Technology (Autonomous), Coimbatore & Pursuing research in the area of Performance and Characteristics Analysis of Micro Pump. He has published research articles in various reputed National and International Journals in the area of Advanced Manufacturing technology and Thermal Engineering. He has guided a number of projects for UG & PG students. He is also life member in various professional societies like ISTE, IE(I), SDIWC Etc.,

Mail-id: sudhakar.t@nsit.edu.in



Mr. S. SRINATH, M.E., (Ph.D.), is an Associate Professor in Department of Mechanical Engineering at Narasu's Sarathy Institute of Technology, Salem. He has 12 years of academic experience. He holds Bachelor of Mechanical Engineering and Masters in Thermal Engineering from Government College of Engineering (Autonomous), Salem & Pursuing research in the area of Heat Exchanger with Nano fluids. He has published research articles in various reputed National and International Journals like Scopus in the area of Thermal Engineering. He has guided a number of projects for UG & PG students. He is also life member in various professional societies like ISTE, IE(I), SDIWC Etc., He acts as a resource person for various seminars, workshops and FDPs. Currently he received the best achiever award from Pennycuik Engineering, Puduchery at the year of 2020-2021.

Mail-id: ssrinath.nsit@gmail.com



Mr. N. SRINIVASAN, M.E., MISTE, is presently working as an Assistant Professor in Department of Mechanical Engineering, Narasu's Sarathy Institute of Technology, Salem. He has 08 years of academic experience. He has published research articles in various reputed National and International Journals in the area of Thermal Engineering. He has guided a number of projects for UG & PG students. He is also an Associate Member in MISTE.

Mail-id: srinivasan.n@nsit.edu.in



Mr. S. JEEVANANTHAM, M.E., is an Assistant professor of Mechanical department, Narasu's Sarathy Institute of Technology, Salem. He has 09 years of academic experience. He has published research articles in various reputed National Journals in the area of Mechanical Engineering. He has guided a number projects for UG students. He has a research experience in bio fuels and heat transfer. He has a lifetime member of various professional societies like as ISME, ISTE, IEEE.

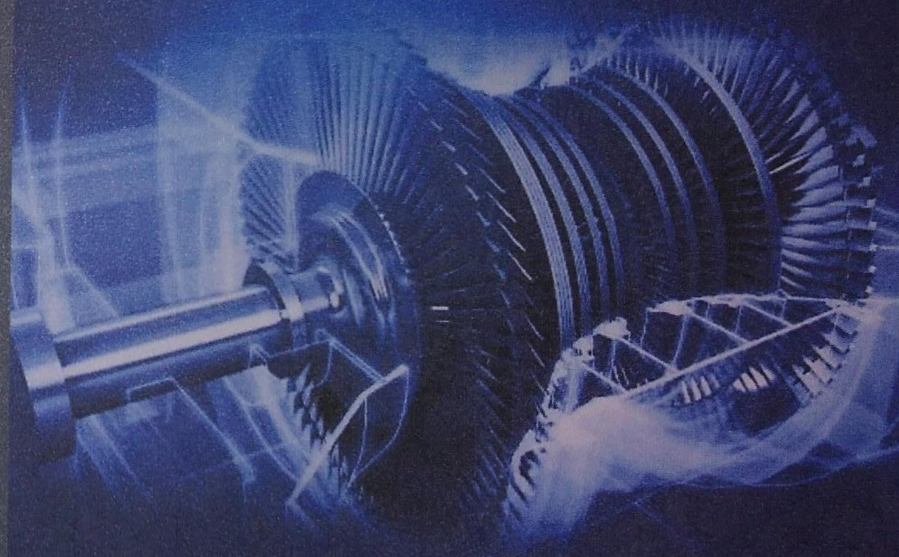
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The Author:



Mr. S. SIVAPRAKASAM M.E., is an Associate Professor of Electronics and Communication Engineering, Narasu's Sarathy Institute of Technology. He has 14 years of Academic experience. He has authored several publications in reputed IEEE International Journals and UGC. He has presented various research papers in National and International conferences. He guided UG and PG Scholars for research project funded by TNSCST and UCC, India. His area of interest are wireless sensor networks, satellite communication, Microprocessor and Microcontroller, VLSI design and Digital System Design.

Email id: sivaprakasam.s@nsit.edu.in



Mr. V. Sivasakthi M.E., is an Assistant Professor of Electronics and Communication Engineering, Narasu's Sarathy Institute of Technology. He has 10 years of Academic experience in teaching. He has served about 5 years in polytechnic college as a HOD & Principal. He has authored several publications in international journals of repute and has also headed research project funded by TNSCST and UGC, India. With expertise in digital Electronics, Microprocessor and VLSI design.

Email id: sivasakthi.v@nsit.edu.in



Mr. V. Govindaraj M.E., is an Assistant Professor of Electronics and Communication Engineering, Narasu's Sarathy Institute of Technology. He has 7 years of Academic experience. He has authored several publications in reputed IEEE International Journals and UGC. He has presented various research papers in National and International conferences. He guided UG and PG Scholars for research project funded by TNSCST and UCC, India. His area of interest are Linear Integrated Circuits, Digital Image Processing and Microprocessor.

Email id: govindaraj.v@nsit.edu.in



Mr. M. Prasanth M.E., is an Assistant Professor of Electronics and Communication Engineering, Narasu's Sarathy Institute of Technology. He has authored several publications in reputed IEEE International Journals and UGC. He has presented various research papers in National and International conferences. He guided UG and PG Scholars for research project funded by TNSCST and UCC, India. His area of interest are Communication Engineering, Digital Signal Processing and Wireless Networks.

Email id: prasanth.s@nsit.edu.in

*Dr. V. Munusami, M.E., Ph.D.,
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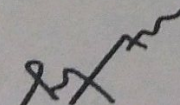
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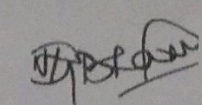
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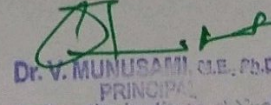
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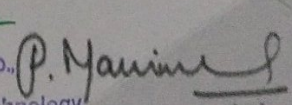
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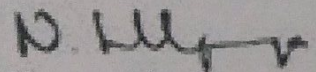
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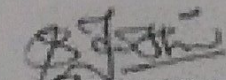
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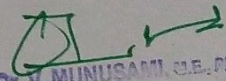
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
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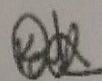
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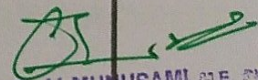
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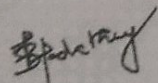
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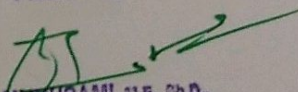
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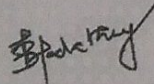
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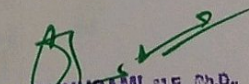
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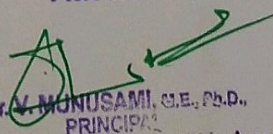
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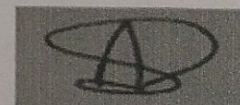
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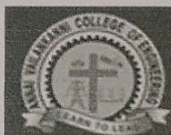
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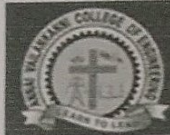
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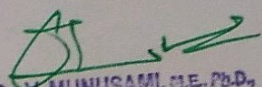
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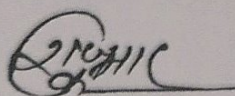
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This is to certify that **Govindasamy. S** has presented a research paper entitled '**Power Quality Improvement in Converters Using ANN**' in the ICAMCCT-2021 held on 10th April, 2021, Organized By Annai Vailankanni College of Engineering, AVK Nagar, Pothaiyadi Salai, Azhagappapuram. P. O, K. K. District, Tamil Nadu, India

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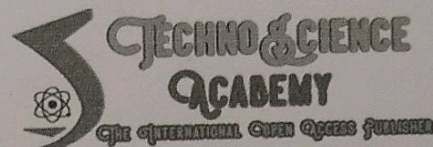
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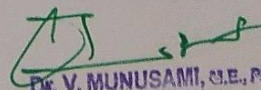
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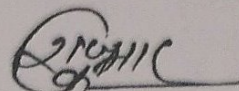
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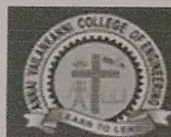



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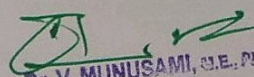
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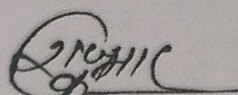
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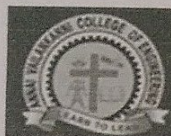


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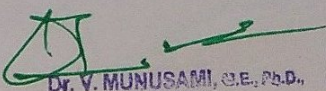
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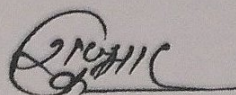
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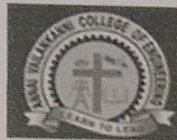
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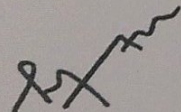
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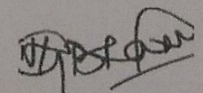
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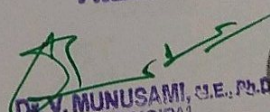
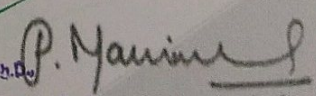
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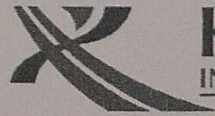
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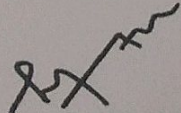
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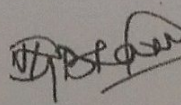
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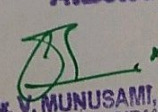
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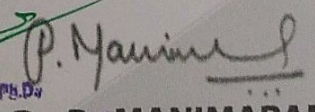
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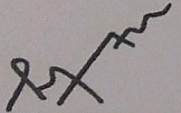
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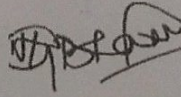
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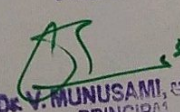
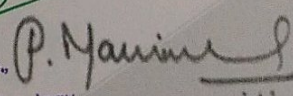
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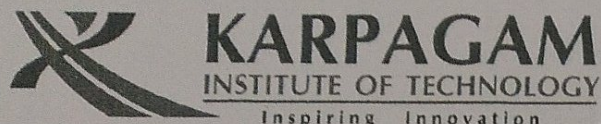
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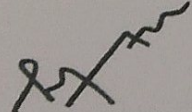
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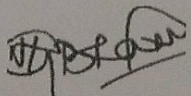
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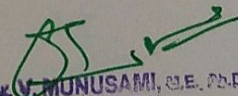
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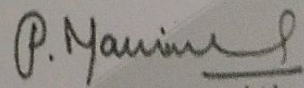
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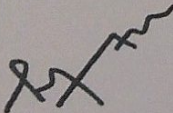
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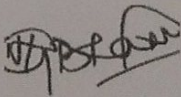
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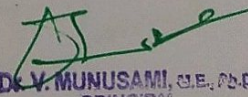
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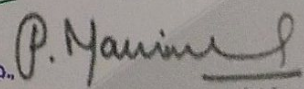
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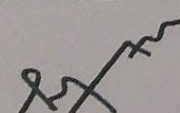
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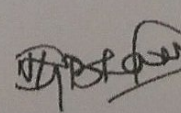
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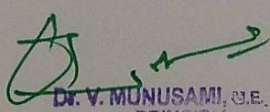
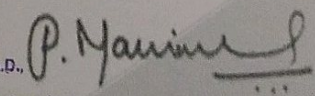
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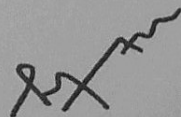
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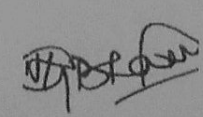
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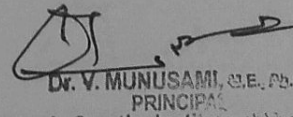
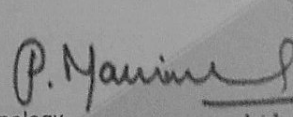
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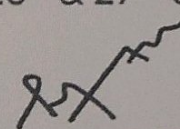
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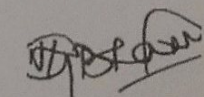
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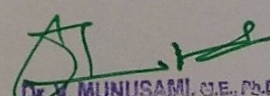
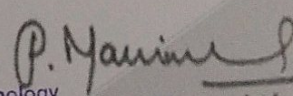
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presented a paper entitled SIGN LANGUAGE RECOGNITION AND TRANSITION USING COMPUTER VISION
ALGORITHM

in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
and Technology (ICLTSET'21) organized by Karpagam Institute of Technology, Coimbatore
held on 26th & 27th of March 2021.


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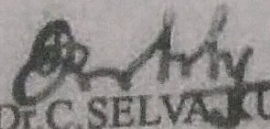
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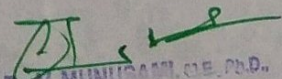


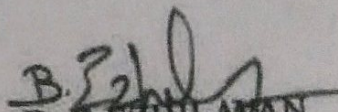
This is to Certify that Dr/Mr/Ms/Mrs/ D. SIVAKUMAR
has present a paper entitled DESIGN FABRICATION AND PERFORMANCE EVALUATION OF AUTO
EGGI INCUBATOR BY USING SOLAR POWER. in International Conference on Emerging trends
in Engineering and Technology Research (ICETETR-2021) held at
Gojan School of Business & Technology
on 2nd April 2021


D.C. SELVA KUMAR
Principal

(Gojan School of Business & Technology)

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Dr. V. MUNUSAMI, M.E., Ph.D.,
PRINCIPAL
Narasu's Sarathy Institute of Technology
Poosaripatty, SALEM - 640 035.


Dr. B. EZHILAVAN
Coordinator
(VEI Technologies)



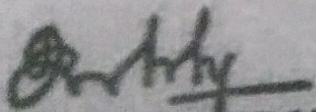
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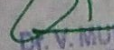
This is to Certify that Dr/Mr/Ms/Mrs/ DESIVAKUMAR
has present a paper entitled DEVELOPMENT OF DESIGN AND EVALUATION OF ADVANCED
VERTICAL AXIS WIND TURBINES USING WATERPUMP in International Conference on Emerging trends
in Engineering and Technology Research (ICETETR-2021) held at
Gojan School of Business & Technology
on 2nd April 2021

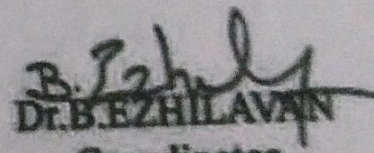

Dr. C. SELVA KUMAR

Principal

(Gojan School of Business & Technology)

Attested


Dr. V. MUNUSAMI, M.E., Ph.D.,
PRINCIPAL
Narasu's Sarathy Institute of Technology
Poosaripatty, SALEM - 636 385.


Dr. B. EZHILAVAN
Coordinator
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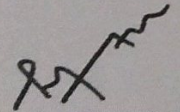
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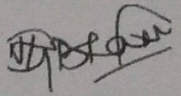
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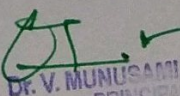
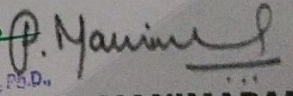
OF PARTICIPATION

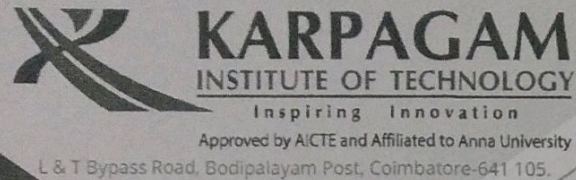
This is to certify that Mr./ Ms./ Dr. Mr. S. Sabarinathan, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled PROTECTION FOR SOCIAL SECURITY SYSTEM BY USING PYROELECTRIC IR
FOR SURVEILLANCE AREA

in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
and Technology (ICLTSET'21) organized by Karpagam Institute of Technology, Coimbatore
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Convener


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Dr. P. MANIMARAN
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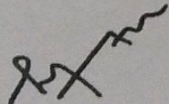
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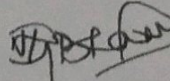
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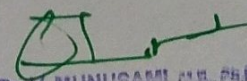
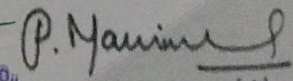
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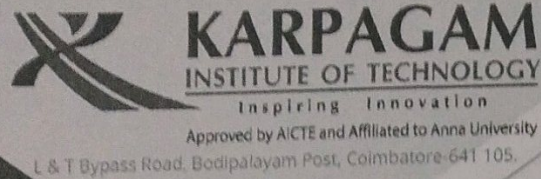
This is to certify that Mr./ Ms./ Dr. Mr. M. Prasanth, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled ADVANCED VOTING SYSTEM WITH ENHANCED SECURITY

in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
and Technology (ICLTSET'21) organized by Karpagam Institute of Technology, Coimbatore
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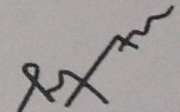
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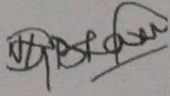
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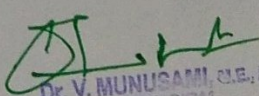
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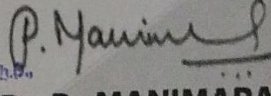
This is to certify that Mr./ Ms./ Dr. Mr. Sivasakthi. V, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled PROPHYLACTIC MEASURES TO RESOLVE THE ISSUES OF FISHERMEN BY
TRACKING AND COLLECTING THE DATA

in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
and Technology (ICLTSET'21) organized by Karpagam Institute of Technology, Coimbatore
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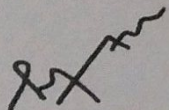
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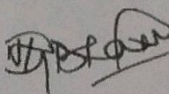
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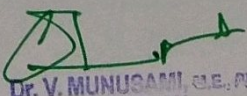
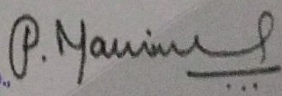
OF PARTICIPATION

This is to certify that Mr./ Ms./ Dr. Mr. S. Sabarinathan, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled ELECTRIC LINE MAN SAFETY WITH PASSWORD BASED CIRCUIT BREAKER
AND INTIMATION OF HT WIRE SAG USING GSM

in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
and Technology (ICLTSET'21) organized by Karpagam Institute of Technology, Coimbatore
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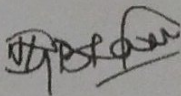
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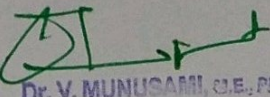
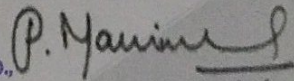
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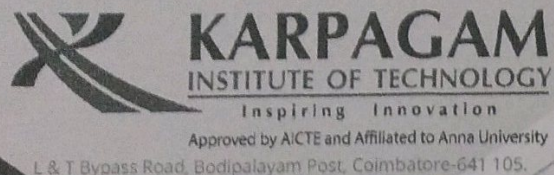
This is to certify that Mr./ Ms./ Dr. Mr. S. Sivaprakasam, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled DESIGN AND IMPLEMENTATION OF AFC &TD BASED EMBEDDED SYSTEM
IN DIGITAL BUS TRANSPORTATION

in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
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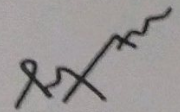
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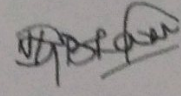
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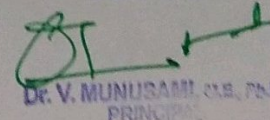
This is to certify that Mr./ Ms./ Dr. M. Rubina, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled ARTIFICIAL INTELLIGENCE BASED EYE FUNDUS IMAGE ANALYSIS FOR
DETECTION AND DIAGNOSIS OF DIABETIC RETINOPATHY & MACULOPATHY USING DEEP CNN

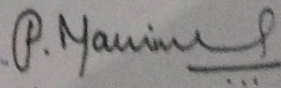
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Dr. S. GOPINATH
Convener

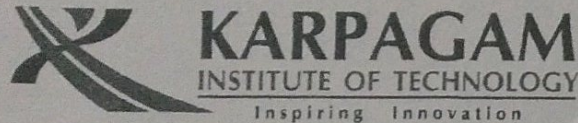
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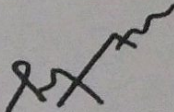
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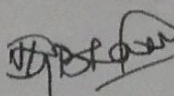
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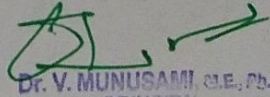
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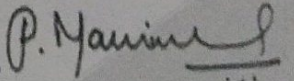
This is to certify that Mr./ Ms./ Dr. Mr. V. Sivasakthi, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled MULTI LEVEL SECURITIZED SMART ATM SYSTEM

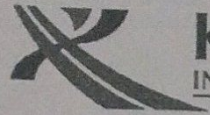
in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
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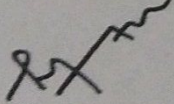
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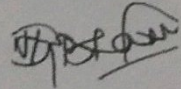
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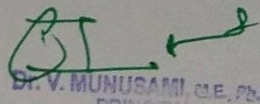
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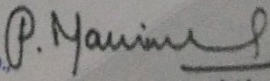
This is to certify that Mr./ Ms./ Dr. Mr. V. Govindaraj, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled IMPLEMENTATION OF REALTIME CHATBOT HARDWARE USING ANDROID

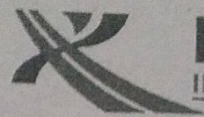
in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
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Dr. S. GOPINATH
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Dr. D. BHANU
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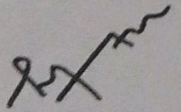
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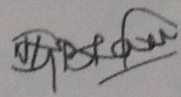
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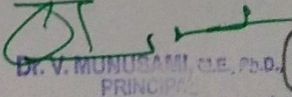
This is to certify that Mr./ Ms./ Dr. Dr. M. Ponguzhali, Professor and Head/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled A MODEL FOR YIELD MANAGEMENT IN AGRICULTURE AND FOR MARKETING
THE PRODUCTS

in the TNSCST Sponsored 7th International E - Conference on Latest Trends in Science, Engineering
and Technology (ICLTSET'21) organized by Karpagam Institute of Technology, Coimbatore
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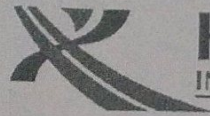
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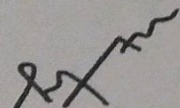
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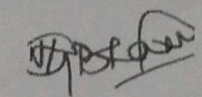
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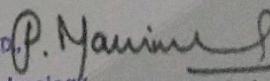
This is to certify that Mr./ Ms./ Dr. Mr. V. Govindharaj, AP/ECE
of Narasu's Sarathy Institute of Technology, Salem has participated and
presented a paper entitled SMART CARD FOR ENHANCED MONITORING & UPDATION OF MEDICAL
RECORD

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Dr. V. MUNUSAMI, M.E., Ph.D.
PRINCIPAL
Narasu's Sarathy Institute of Technology
Poosaripatty, SALEM - 636

Dr. P. MANIMARAN
Principal