SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Date: 20/02/2017

Submitted to the Principal for Approval

Through HOD- EC

As a part of research activities, we propose to conduct a **National Conference on** **"Signal Processing, Communication and Networking" NCSPCN '17** at our college during **05-04-2017 & 06-04-2017.** We have identified 4 speakers from Indian Institute of technology- Madras & CEG – Anna University for the technical talks. The targeted audience would be UG, PG students, Research scholars and Faculty from various Engineering colleges. A budget of Rs **37,500/-** is estimated, the break up details are given below

BUDGET for National Conference on NCSPCN 2017

S.No	Details	Amount in INR
1.	Honorarium & Transport for the experts [4 sessions]	15,000/-
2.	Stationery and Certificates	2500/-
3.	Brochures and banners	2500/-
4.	Lunch and Snacks	5000/-
5.	Pre - conference printing	5000/-
6.	Publications of Proceedings	7500/-
7.	**Projected Expenditure**	**37,500/-**
8.	Registration Fee Per candidate	750/-
9.	**Expected Revenue through Registration** (Expected No. of Participants - 40)	**30,000/-** (750*40)
10.	**External Sponsorship**	**5,000/-**
11.	**Amount Requested from College** {Projected Expenditure -Registration Fee & External Sponsorship = 37500-35000}	**2,500/-**

We are expecting **Rs.35,000/-** through Registration and External sponsorship. It is requested to provide **Rs.20,000/-** in advance from the college for doing preliminary work and the advance amount will be returned back to College after receiving the registration amount.

We request you to kindly accept this proposal in the interest of research at our college and grant us the fund for the same. Kindly do the needful.

Dr. G A SATHISH KUMAR
Co-ordinator

Dr.S.MUTHUKUMAR
HOD-EC

Sir, The proposal is resubmitted after the corrections.
Muthukumar.

Approved.

To: Dr. GASK
23/2/17

A Report on NCSPCN'17 organized on April 5th and 6th 2017 by the Department of ECE

ABOUT THE CONFERENCE

The National Conference on Signal Processing, Communication & Networking, NCSPCN '17, during 5th and 6th April 2017, will serve as a forum for experts from industries and institutions to share their knowledge and experience leading to synergy of technologies in Electronics, Communication Systems, Computer Networks & Digital Signal Processing. It will focus on research, development and demonstration across a broad spectrum of topics related to advanced Electronics & Communication Engineering. It will also offer an opportunity to faculty and aspiring researchers to present their research findings.

TOPICS OF CONFERENCE

The following areas form the broader scope of the conference which shall include but not limited to the topics listed as under and can be extended based on the creativity of the authors.

- Ad hoc & Sensor Networks
- Bio-Medical Signal Processing
- Channel Modeling, Coding & Measurements
- Cognitive Radio & Dynamic Spectrum Management
- DSP Algorithms & Applications
- Electronic Systems
- Microwave (Antenna/Measurements/EMI/EMC)
- MIMO Systems
- Networking & Communication Engineering
- Optical Network Protocols
- Security in Communication & Networking
- Signal, Image Processing & Machine Learning
- Soft Computing

ABOUT THE COLLEGE

Sri Venkateswara College of Engineering (SVCE), a premier self-financing engineering college was started in the year 1985 and is managed by Sri Venkateswara Educational and Health Trust. The main objective of this institution is to impart knowledge to undergraduate, post graduate and research students. The College offers 10 BE / B.Tech Degree Courses, 10 PG Courses in Engineering, 11 research centers approved by Anna University cater to MS(by Research) and Ph.D programmes. The courses are approved by AICTE and affiliated to Anna University, Chennai, The college attained autonomous status in 2016.

The college is accredited by National Assessment and Accreditation Council (NAAC). The college is also certified by IRQS for ISO 9001-2008. The college is situated in serene environment about 37 Kms from Chennai and situated on the way of Chennai – Bangalore National Highway (NH4) at Pennalur, Sriperumbudur, in Kanchipuram district. The campus is Wi-Fi enabled.

ABOUT THE DEPARTMENT

The Department of ECE was started in the year 1985. The post graduate program (M.E) in Communication Systems was started in 2002 and Applied Electronics in 2012. There are about 44 faculty members in the department and 7 of them are doctorates. The department is well equipped with lab facilities and software tools like IE3D, ADS, Lab View, Tanner Tools, MATLAB. The UG programme in the department has been accredited by the NBA.

Sri Venkateswara College of Engineering

(An Autonomous Institution Affiliated to Anna University, Chennai)

A

National Conference

on

SIGNAL PROCESSING, COMMUNICATION & NETWORKING

"NCSPCN-2017"

APRIL 5th & 6th 2017

CONVENOR

Dr. S. Muthukumar, HOD/ECE

COORDINATORS

Dr.G.A.Sathish Kumar, Professor/ECE

Ms. M.Jeyaprabha, AP/ECE

Organized

by

Department of Electronics & Communication Engineering,

Sri Venkateswara College of Engineering,

Pennalur, Sriperumbudur-602 117.

SRI VENKATESWARA COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

National Conference on "Signal Processing, Communication and Networking"

PROGRAMME AGENDA : 5ᵗʰ April 2017 - DAY 1		
	8:30 - 9:00 hrs	Registration
	9:00 - 9:05 hrs	Prayer Song
Inauguration of the event	9:05 - 9:15 hrs	Welcome Address by Dr.S.Muthukumar, HoD-ECE, SVCE NCSPCN'17 - Brief Address by Dr.G.A.Sathish Kumar, Prof., ECE, SVCE
	09.15 - 09.20 hrs	NCSPCN '17 Proceedings release by HOD-EC and Chief Guest
Session - I "Design Methodologies for Next Generation Custom Accelerators: High-Level Synthesis for System-level Solutions"	9:20 - 10:20 hrs	Inaugural and Key Note address by Dr.Swathi Tanjore Gurumani, Visiting Faculty, IIITDM.
	10.20 - 10.30 hrs	Tea Break
Session - I Paper Presentation	10.30 - 12.15 hrs	VLSI
	12:15 - 1:00 hrs	LUNCH BREAK
Session - III "Image security"	1:00 -2:00 hrs	Key Note address by Dr.V.Masilamani, Assistant professor, CSE, IIITDM
Session - II Paper Presentation	2:00 - 3:15 hrs	Communication & Networking

PROGRAMME AGENDA : 6ᵗʰ April 2017 - DAY 2		
Session - III "Underwater Vehicles"	9.00 - 10.30 hrs	Key Note address by Tata Sudhakar, Scientist, NIOT
	10.00 - 10:15 hrs	Tea Break
Session - III Paper Presentation	10:15 - 12:15 hrs	Signal Processing
	12:15 - 1:15 hrs	LUNCH BREAK
Session - IV Paper Presentation	1:15 - 2:30 hrs	Electronics, RF & Microwave
	2:30 - 2:45 hrs	Feedback from Participants
Valedictory session	2:45 - 3:00 hrs	Valedictory Address and Certificate Distribution
	3:00 - 3:05 hrs	National Anthem

Coordinators
Dr G A Sathish Kumar
Ms T J Jeyaprabha

Department of ECE organized, A Two Day National Conference on "Signal Processing, Communication and Networking" NCSPCN'17 on April 5th and 6th 2017.

The event was coordinated by Dr.G.A.Sathish Kumar, Professor and Ms.T.J.Jeyaprabha, Assistant Professor. The event was well organized by the members of the teamMs.D.Menaka, Ms.K.Srividhya, Ms.S.Kalyani, Ms.R.Kousalya, Ms.L.Anju, Ms.B.Sarala, Mr.M.K.Varadarajan, Ms.S.M.Mehzabeen and Ms.S.Reethi, Assistant Professors, Department of ECE.

The Conference was started with a prayer song and Welcome address by our beloved HOD-EC, **Dr.S.Muthukumar**. The Conference theme address was given by **Dr.G.A.Sathish Kumar,** Professor, Department of Electronics and Communication Engineering. The Conference was inaugurated with lightening of **Kuthu-Vilakku, Conference Proceeding release** by respected chief guest **Dr.Swathi Gurumani,** Asst. Prof., Department of Electronics, IITDM, Dr.G.A.Sathish Kumar, Professor, Dr.S.Muthukumar, Professor & HOD-EC, Ms.T.J.Jeyaprabha and Ms.B.Sarala, Assistant Professors, Department of Electronics and Communication Engineering.

Day 1: The Inaugural Key note address was given by **Dr.Swathi Gurumani,** on the topic: "*Design Methodologies for Next Generation Custom Accelerators: High-Level Synthesis for System-level Solutions*" in which he discussed about FPGA and custom IC design.

The inaugural address was continued by paper presentation. The session-I was in the field of VLSI and was judged by Dr.R.Anitha, HOD, Department of Information Technology and Dr.S.Malathi, Associate Professor, Department of ECE.

Next Key note talk was delivered by **Dr Masilamani V**, Assistant Professor, Department of Computer Science and Engineering, IIITDM, Kancheepuram, on the topic "*Image Security*", in which he discussed about the recent research issues in Image Processing & Security.

The paper presentation Session-II was on the field of Communication & Networking and was judged by Dr.G.Sumathi, Professor and Head-IMS, Dr.P.Jothilakshmi, Professor and Ms.G.Padmavathi, Professor, Department of ECE.

In day 2 Key note address was given by **Mr.Tata Sudhakar**, **Scientist, NIOT** on the topic "*Underwater Vehicles*" in which he discussed about the research on underwater survey missions such as detecting and mapping submerged wrecks, rocks.

The paper presentation Session-II was in the field of Signal Processing and was judged by Dr.N.Kumaratharan, Professor, Department of Information Technology and Dr.R.Gayathri, Associate Professor, Department of Electronics and Communication Engineering.

The paper presentation Session-IV was in the field of Electronics & RF and was judged by Dr.N.K.Mohanty, Professor, Department of Electrical and Electronics Engineering and Dr.H.Umma Habiba, Professor, Department of Electronics and Communication Engineering.

The Valedictory Address was given by Dr.K.R.Santha, Vice Principal & HOD, Department of Electrical and Electronics Engineering, followed by Certificate distribution to the participants by our Vice Principal.

Finally, the conference was concluded with the Vote of Thanks by Dr.G.A.Sathish Kumar, Professor, Department of ECE.
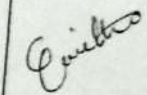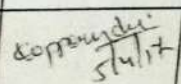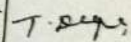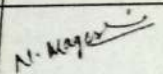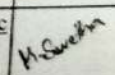
The event was successfully completed with our National Anthem. We like to thank all student volunteers from PG-CS, PG-AE, UG and supporting faculty.

We would like to thank **CSI** and **Ohmtronix** for sponsoring our Conference. All the papers presented in the Conference was selected for publication in the International Journal on Innovative Research in Computer and Communication Engineering **IJIRCCE**.

Head of the Department
Electronics and Communication Engineering
Sri Venkateswara College of Engineering
Sriperumbudur - 602 117, India

Sri Venkateswara College of Engineering
Department of Electronics and Communication Engineering
National Conference on Signal Processing, Communication and Networking - NCSPCN '17
05/04/2017 - SESSION I (VLSI)

Domain	Paper ID	Name of the author(s)	Paper title	Institution	Mail id	Signature
VLSI	I1	G.Pavithra, R.Kousalya	DESIGN AND PERFORMANCE VERIFICATION OF RECONFIGURABLE FIR FILTER BASED ON SPLIT-UP DISTRIBUTED ARITHMETIC	SVCE	gopal.pavithra@yahoo.com, kousi@svce.ac.in	
VLSI	I7	P.Kopperundevi, Dr.S.Muthukumar	SIMULATOR FOR MIPS PROCESSOR	SVCE	kopperundevipj@gmail.com, muthukumar@svce.ac.in	
VLSI	I9	T.Deepa, Dr.S.Muthukumar	DESIGN OF AN 8-BIT PROCESSOR	SVCE	tdeepaece9@gmail.com, muthukumar@svce.ac.in	
VLSI	I13	N.Mageshwari, Dr.G.A.Sathish Kumar	DESIGN AND DEVELOPMENT OF APPROXIMATE MULTIPLIER USING URDHVA ALGORITHM	SVCE	nmageshwari811@gmail.com, sathish@svce.ac.in	
VLSI	I14	K.Swetha, M.Athappan	DESIGN AND ANALYSIS OF CARRY SELECT ADDER USING KOGGE STONE ADDER	SVCE	swekannadasan@gmail.com, athappan@svce.ac.in	
VLSI	I17	Nadar James Francis Joseph Roy, Dr.S.R.Malathi	FOLDED ARCHITECTURE FOR ADAPTIVE DIGITAL FILTER	SVCE	james.francis737@gmail.com, malathiraj@svce.ac.in	

Domain	Paper ID	Name of the author(s)	Paper title	Institution	Mail id	Signature
VLSI	I24	U.M.Sreelekha, B.Sarala	VLSI Architecture of Matrix based RNS Backward converter	SVCE	sreelekha2611@gmail.com,sarala@svce.ac.in	U.M. Sreelekha
(3) VLSI	E1	M.Hari Hara Bhuvanesh, M.G. Aravind Sai	Efficient Implementation of VLSI on Competitive Neural Network	Meenakshi College of Engineering	harihb96@gmail.com , mgaravindsai@gmail.com	M B
VLSI	E3	Mohana Priya.N, M.Uma maheswari, G.Akila	A VLSI-efficient signed magnitude comparator for { 2n−1, 2n, 2n+1−1} rns using kogge-stone adder	Meenakshi College of Engineering	Mohanaamaran22@gmail.com	
ELEC	E7	S. Kruthikaa, N. Thendral, R. Vani, S.M. Gomathi, S. Nisani	Design of Low Power Dissipation of Pacemaker based on Duty Cycle Generation using Boost Converter of Fixed Pulse Width	Meenakshi College of Engineering	thendral2082@gmail.com	Kruthikaa
ELEC	E8	D. SATHEESHWARI, D.SNEKHA, M.SANGAVI	Design and Implementation of Digital Stethoscope with Disease Identification	Meenakshi College of Engineering	snekhadurairaju@gmail.com,sangavi.sangi2111@gmail.com	D Sneka
RF	I15	Vijayalakshmi S, Dr.P.Jothilakshmi	DESIGN AND IMPLEMENTATION OF WIDEBAND ANTENNA USING DEFECTED GROUND STRUCTURE(DGS) FOR ULTRA WIDEBAND APPLICATION	SVCE	zvjlakshmisree@gmail.com, jothi@svce.ac.in	Vijaya

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05/04/2017 - SESSION II (Communication & Networking)

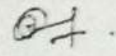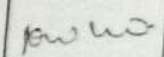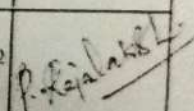| Domain	Paper ID	Name of the author(s)	Paper title	Institution	Mail id	Signature
COMM	I5	R.Mohanasundaram, S.Saravanan	Design and Implementation of Wideband Antenna for Satellite Communication	SVCE	msundaram8@gmail.com	R. Lohormy
NTW	I16	S.DEEPIKA, G.PADMAVATHI	THROUGHPUT MAXIMIZATION FOR FULL-DUPLEX COGNITIVE RADIO NETWORKS USING ARTIFICIAL BEE COLONY (ABC) OPTIMIZATION TECHNIQUE	SVCE	deepikamangai94@gmail.com gpadma@svce.ac.in	Diyik.8
NTW	I20	R.RAMYA, S.RADHIKA	SPECTRUM AWARE ANY-PATH ROUTING IN MULTI-HOP COGNITVE RADIO NETWORKS	SVCE	ramyaasparks@gmail.com, sradhika@svce.ac.in	Ramya B
COMM	I21	P.Kalaivani, S.R.Balasubramanian	PAPR REDUCTION TECHNIQUES FOR OFDM SYSTEMS	SVCE	Kalaivanipalani93@gmail.com, srb@svce.ac.in	P. Kalaivani
COMM	I22	NIVEDHA.P, T.J JEYAPRABHA	PERFORMANCE OF SECURED TURBO CODING SCHEME FOR LAND MOBILE CHANNELS	SVCE	nive2693@yahoo.com, jprabha@svce.ac.in	Rull
NTW	E2	Jeswanth.V.R, M.Deepak,D.K.Albert Richard, Joseph Jeyakumar	Location Identification and Trainer Safety System Using Cognitive Radio network	Meenakshi College of Engineering	vrjeswanth3@gmail.com , deepakrd1995@gmail.com	Albert.
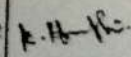
	Domain	Paper ID	Name of the author(s)	Paper title	Institution	Mail id	Signature
(1)	COMM	E5	G.Sugantha, Dr.K.Bhoopathi Bagan	Channel Estimation for Massive MIMO	MIT Campus,AU	suganthaguru93@gmail.com	
(3)	COMM	E6	Sivaranjani.C.K.,R. Anandha praba, V. Shanmuga Priya	Bank locker security system using NFC	Meenakshi College of Engineering	shivaranjani92@gmail.com , shanmuga96@yahoo.com	
(4) (K)	NTW	E9	E.Abirami,S.Alagammai, B.Hemamalini,K.Manisha,R.Sujatha	Backhaul performance of 5G networks using TWDM –PON	Velammal Engineering College	abiramielanchezian95@gmail.com,alagammaisubramanian30@gmail.com, hemababun@gmail.com, manishaselvan@gmail.com ,sujathar@velammal.edu.in	
(*)	COMM	E11	Kommal.R, G.SUDHA	Blur Ray Under water Communication based Optical MODEM for the MEDUSA class	Sri Sairam Engineering College	sweetkiller23.sk@gmail.com	
(3) Cert issued	NTW	E12	B.Padmavathi, C.R.Naveen, S.Vishnu Priyan	A review of 5G smart small cell networks using Hybrid beam forming	Jeppiaar Maamallan Engineering Institute of College Technology	naveennanicr@gmail.com	C.R.Naveen
(2)	COMM	E13	Shalini.B, Vinothini, M.C. VINODHINI	LiFi Technology based Networking	Sri Sairam Institute of Technology	nirmala.shalini@gmail.com	B.Shali
	NTW	E19	Mr.K.Suresh kumar, T.Karthik Raj, R.Poovarasan,P.Aravinth Raj	LOCATION BASED TASK REMAINDER (TASK ALERTER)	Saveetha Engineering College	tkarthic8@gmail.com	
	COMM	E20	S.Vijay Varadharajan, V.Vasudha, M.Yasmin Banu, G.Bhargavi	IDENTIFICATION USING WIFI SIGNAL TRANSCIEVER IN ID CARD	Jerusalem College of Engineering	vijay61695@gmail.com	
(2)	NTW	E27	R Poornima N. Priyadharsini D Jayanthi	Finding potential customers using business analytics In E-commerce	Sri Venkateswara College Engineering	priyadharsininarahanimo @gmail.com	₹1500/-

Sri Venkateswara College of Engineering
Department of Electronics and Communication Engineering
National Conference on Signal Processing, Communication and Networking - NCSPCN
06/04/2017 - SESSION III (Signal Processing)

Domain	Paper ID	Name of the author(s)	Paper title	Institution	Mail id	Signature
SP	I4	G.Deepika, M.Vidya	BACKGROUND NOISE REDUCTION USING FFBPNN-LM NETWORK AND ADAPTIVE FILTER	SVCE	deepika.140194@gmail.com, mvidya@svce.ac.in	
SP	I6	Lakshmi Thara. R, S.P.Sivagnana Subramanian	OPTIMIZATION OF BLEBS IN HUMAN EMBRYONIC STEM CELLS	SVCE	lakmethara@gmail.com, spsivagnam@svec.ac.i	
SP	I8	J. Jose Nisha, Dr.R.Gayathri	MULTIFEATURE BIOMETRIC BASED AUTHENTICATION SYSTEM	SVCE	nishajoseph23@gmail.com, gayathricontact@gmail.com	
SP	I10	Rajalakshmi.P, L.Anju	FEATURE EXTRACTION AND SPEAKER IDENTIFICATION IN AUTOMATIC SPEAKER RECOGNITION SYSTEM	SVCE	vedharaje29@gmail.com, anju@svce.ac.in	
SP	I12	K.HEMAVATHI, D.MENAKA	SEGMENTATION AND CLASSIFICATION FOR IMPROVED KARYOTYPING OF MULTISPECTRAL CHROMOSOME IMAGES	SVCE	hema.k2801@gmail.com, menaka@svce.ac.in	

Domain	Paper ID	Name of the author(s)	Paper title	Institution	Mail id	Signature
SP	I23	Fincy Mol F, Ms. K.Thaiyalnayaki	COMPARING THE BRAIN REGIONS OF HEALTHY CONTROLS AND ADHD	SVCE	fincyffjj@gmail.com, thaiyalnayaki@gmail.com	*(signature)*
SP	I25	Krishnapriya S, L.Anju	MUSICAL SOURCE CLUSTERING AND RAGA IDENTIFICATION	SVCE	anju@svce.ac.in	*(signature)*
⊛ SP	E4	T.Preethi, Ms .K.Subhashini	The new method for blood vessel segmentation and optic disc detection	Sri Sairam Engineering College	pgladinol@gmail.com	
SP	E14	Dinakar. G and Thulasi Ram. K	Chromosome abnormality detection using k-means algorithm	Prathyusha Engineering College	vanithafredrick@gmail.com	*(signature)*
SP	E15	Kishore T, Jayamani R	Image Forgery Detection using Blind Detection	Prathyusha Engineering College	kishoret2705@gmail.com	T.Stai R.Kayama *(signature)*
SP	E21	G.Vijaya Gomathi, A.Srinidhi	Study On Word Recognition By Lip Movement Analysis	Sri Sairam institute of technology	vijayagomathi1996@gmail.com,srinidhianand4@gmail.com	G.Gomath A.arn *(signature)*
SP	E22	Anirudh Anand, M.Arun Singh,S. Jayakumar, T.Selvathai, Sanjay Kumar Suman	Soldier's Position Tracking System	MNM Jain Engineering College	anirudhanand1996@gmail.com	

1) — — K. AKILESHWARAN. (250/-)   participation   S.V.C.E.   akil-aj96@gmail.com   K. Akil.

SP E23 Venmathi .A.R , Dr .E.N. Ganesh, Dr. N. Kumaratharan   Markov Random Field with Ant Colony and support vector based classification

2) — — M. AJEET (250/-)   participation   SVCE

3) — — R. GOWDHAM (250/-)   "   "

Sri Venkateswara College of Engineering
Department of Electronics and Communication Engineering
National Conference on Signal Processing, Communication and Networking - NCSPCN '17
06/04/2017 - SESSION IV (Electronics, RF & Microwave)

Domain	Paper ID	Name of the author(s)	Paper title	Institution	Mail id	Signature
RF	I2	D.BHARATHI, DR.H.UMMA HABIBA	Dual-Mode X-Band Bandpass Filter Using Stepped Impedance Resonator And Vias	SVCE	harbitha710@gmail.com, ummahabiba@svce.ac.in	D.B+h.
RF	I3	V.Sneha, S.SenthilRajan	Microwave Band Pass Filter Using EMBEDDED ELECTROMAGNETIC Band Gap Structures	SVCE	rv.sneha@yahoo.com, senthilrajan@svce.ac.in	
RF	I11	L.Sridevi, B.Hemalatha	Frequency Reconfigurable Microstrip Antenna for Satellite Applications	SVCE	Sridevi.ece9a@gmail.com, hemalatha@svce.ac.in	L-ri dri
RF	I18	C.Mohan, K.Srividya	Design Sign of a COmpact MIMO Antenna with Polarization Diversity for WiMax Application	SVCE	srivi@svce.ac.in	C.uruf
RF	I19	K.Jothilakshmi, Dr.P.Jothilakshmi	Design of Multilayer Microstrip Patch Antenna for Satellite Application	SVCE	kjothilakshmime@gmail.com, jothi@svce.ac.in	K.Jh +
RF	I26	SANJAY.P, VALLIMAYIL.S.R, SNEHA.R	RFID Based Personnel Location Tracking and Monitoring	SVCE	sanjusanjusanjay10@gmail.com, vallimayilsr17@gmail.com, sncharaza04@gmail.com	Agr
ELEC	E10	D.Satheeswari, M.Greeshma, Jessila Mohmatha, F.Edwin Louis	Electronic voting using finger print sensor and Aadhar Card	Meenakshi College of Engineering	edwinlouis07@gmail.com	IG.L
RF	E17	Priyanga.S Priyanga Rubeni D, Kanthimathi M	A Dual band Microstrip Patch A Frequency Reconfigurable Microstrip Patch Antenna Using Varactor Diode antenna with RF Scortch	Sri SaiRam Engineering College	priya6deva@gmail.com, Kanthimathi.ece@sairam.edu.in	Py —
RF	E18	S.Priyanka, S.Brindha	Design of multiband antenna for wireless application	Sri Sairam Engineering College Chennai	Privajan27@gmail.com, brindha.ece@sairam.edu.in	

Head of the Department
Electronics and Communication Engineering
Sri Venkateswara College of Engineering
Sriperumbudur - 602 117. India