



TWYSTRA

NEWS LETTER

VOLUME :- 1

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AUGUST-2013

UNIVERSITY RANKS

2008-2012



INDHUMATHI.V
Rank 34



VIDHYA.M
Rank 39



SUJITHA.A
Rank 48



SEETHA V.K
Rank 50

VISION

The vision of the **ECE Department** is to make the Department and college entities a nationally and internationally leading institution of higher learning and to render services to meet the challenges of organisations by educating students to become estimable professional engineers of high ethics and great values

MISSION

To develop innovative and simple instructional material to drive the concepts into the minds of students so that they become enlightened

individuals, improving the living standards of their families, industry and society.

To grow a committed group of competent teachers striving for excellence, be it in teaching or research

To develop collaborative research and development linkages with leading organizations in India and abroad



PROGRAM EDUCATIONAL OBJECTIVES

To develop strong background in basic science, basic mathematics and be able to use these tools in engineering field.

To identify and define engineering problems in the fields of electronic and communication engineering.

To employ necessary techniques, hardware, and communication tools for modern engineering application.

To solve problems through analytical thinking in their related fields

NATIONAL CONFERENCE

The ECE Department conducted the Second National Conference on Recent Advancements in Signal Processing and Communication

- **NCRASPC - 2013** on 01.04.2013.



It was inaugurated by the Chief Guest

Dr. H. Ravi Sankar, Senior Scientist, Department of Computer Applications, Central Tobacco Research Institute, Rajahmundry, Andhra Pradesh.

GUEST LECTURES

1) A Guest Lecture was delivered by **Dr.K.Gunasekaran** -Dean Academics, Rajalakshmi Engg. College, Chennai, on **Antenna and Wave Propagation** to III Year ECE Students, on 12.01.2013.

2) A Guest Lecture was delivered by **Mr. Srinivasan** HOD-IT, Rajalakshmi Institute of Technology, Chennai, on **Computer Networks** to III Year ECE Students, on 06.02.2013.

3) A Guest Lecture was delivered by **Dr.K.Udhayakumar**, Professor, Anna University, Chennai, on **Control Systems** to II Year ECE Students, on 23.02.2013.

INDUSTRIAL IVSITS

1) II Year ECE A Section students went on an Industrial Visit to **ICF Chennai**, on 04.01.2013.

2) II Year ECE C Section students went on an Industrial Visit to **ICF Chennai**, on 11.01.2013



Ennore Port

3) II Year ECE A and B Section students went on an Industrial Visit to **Ennore Port** on 23.01.2013.

4) II Year ECE B&C Section students went on an Industrial Visit to **Ennore Port** on 30.01.2013



ICF Chennai

5) III Year ECE A Section students went on an Industrial Visit to **National Atmospheric Research Laboratory (NARL)** on 8.3.2013.

6) III Year ECE A&B Section students went on an Industrial Visit to **Jeppiar Steels Fabrication Ltd**, Kancheepuram, on 12.3.2013.

TRAINING ACTIVITIES

1) Winter Training Program on Robotics by ABLE BRAIN a venture by IIT B Students at Dept.of.ECE, RMKCET was conducted from 26.12.2012 to 03.01.2013.

2) Winter Training Program on GAME Development by ABLE BRAIN a venture by IIT B Students at Dept.of.ECE, RMK CET was conducted from 26.12.2012 to 03.01.2013.



INPLANT TRAINING

1) B.Kishore Kumar, T.Kishore Kumar and S.Manigandan of III Year ECE underwent Inplant training at Shri Renuga Textiles Ltd. from 09.01.2013 to 18.01.2013.

2) K.Swathi ,K.Shruthi, J.Sivasankari,S.Ramya, D.Yazhini, B.Swathi,R.Suchithra Devi and G.Suchithra of II Year ECE underwent Inplant training at HCL from 18.01.13 to 20.01.13.

3) S.T.Harihara Sudhan and P.Deepak Kumar of III Year ECE underwent Inplant Training at Ford India Pvt. Ltd., Perungudi, Chennai from 02.02.2013 to 11.02.2013.

4) R.Swetha of III Year ECE underwent Inplant training at UNIQ technologies, from 05.06.2013 to 09.06.2013.

5) M.Pradeep Kumar of III Year ECE underwent Inplant training at Doordarshan Triplicane,Chennai from 10.06.2013 to 13.06.2013.

6) P.M. Abdul Khader, D.Ashokan and P.Dinesh.,of III Year ECE underwent Inplant Training at Chennai Port Trust Chennai from 20.06.2013 to 26.06.2013.

7) U.Sowmiya of III Year ECE underwent Summer Vacation training program at Rajalakshmi Engg. College on 12.06.2013 and 13.06.2013.

8) C.Poorani of III Year ECE underwent Inplant training at UNIQ technologies from 13.06.2013 to 17.06.2013.

9) B.Anandh Raj, R.Balaji Y.B.Venkatesh and M.Balaji of III Year ECE underwent Inplant training at Doordarshan, Triplicane, Chennai from 17.06.2013 to 21.06.2013.

10) P.Niveditha of III Year ECE underwent Inplant training at Doordarshan, Triplicane, Chennai from 17.06.2013 to 21.06.2013.

11) J.M.Juhi Shabnam Fathima of III Year ECE underwent Inplant training at Doordarshan,Triplicane, Chennai from 17.06.2013 to 21.06.2013.

12) P.Sushmitha and U.Sowmiya of III Year ECE underwent Inplant training at BSNL, Chennai from 17.06.2013 to 21.06.2013.

13) J.Sukalatchiya , R.Swetha , K.Sujatha, P.Rani, J.Sivasankari, B.Swathi, K.Swathi , K.Shruthi, D.Yazhini, Preethi M, G.Suchitra, P.Gowri and S.Umaiymmalof III Year ECE underwent Inplant training at BSNL, Thambaram, Chennai, from 17.06.2013 to 21.06.2013.

14) A.Ramya and M.Ramya of III Year ECE underwent Inplant training at Kaashiv Infotech, Chennai, from 20.06.2013 to 25.06.2013.

15) K.G.Deepika, of III Year ECE underwent Inplant training at Doordarshan, Triplicane, Chennai from 24.06.2013 to 28.06.2013.

16) S.Anupriya, J.Angel, B.Vaishali, M.Subhashini and N.Saranya of III Year ECE underwent Inplant training at DDGM India Metrological Department Nungambakkam Chennai from 10.06.2013 to 14.06.2013.

17) B.Anandh Raj, R.Balaji Y.B.Venkatesh and M.Balaji of III Year ECE underwent Inplant training at Vi Micro Systems,Chennai, from 10.06.2013 to 14.06.2013.

18) R.Anuranjani, K.M.Ramya and M.Jayanthi of III Year ECE underwent Inplant Training at Titan Industries (Watches & Accessories) Ltd, Hosur from 10.06.2013 to 17.06.2013.

19) N.Pushpahassan of III Year ECE underwent Inplant training at ICF, Chennai. From 11.06.2013 to 18.06.2013.

20) P.M. Abdul Khader, D.Ashokan and P.Dinesh.,of III Year ECE underwent Inplant Training at Chennai Port Trust Chennai from 20.06.2013 to 26.06.2013.

JOURNAL PUBLICATIONS

- 1) N.Gangatharan "Glaucoma Detection in Fundal Retinal Images using Trispectrum and Complex Wavelet-Based Features" European Journal of Scientific Research , Volume 97, No.1, page nos. 19-171, Feb 2013.
- 2) Mathana J.M., J.Raja Paul Perinbam and P.Rangarajan, "Low Complexity Reconfigurable Turbo Decoder for Wireless Communication Systems" Arabian Journal of Science and Engineering", DOI 10.1007/s13369-012-0495-8, 2013. (Springer Publications, Annexure I)
- 3) Muthumanickam.S, Padmavathy. T.V., Jayavasanthakumaran.S, Arun. C "Performance analysis of MIMO MBWA model with various detectors" International journal of advanced engineering sciences and Technologies (IJAEST) ISSN: 2230-7818.
- 4) Muthumanickam.S, Padmavathy.T.V, Jayavasanthakumaran.S, Arun.C "Performance Analysis of MIMO MBWA Model with Various Detectors" International Journal of Computer Networking, Wireless and Mobile Communications (IJCNWMC), April-May 2013, ISSN 2278-9448 Impact Factor (JCC): 2.596.
- 5) Muthumanickam.S, Padmavathy.T.V, Jayavasanthakumaran.S, Arun..C "Performance Analysis of IEEE 802.20 with Multiple Antenna System and Various Equalizers" American Journal of Engineering Research (AJER), Accepted, Yet to be Published.
- 6) Mathana J.M, Ashvanth.R, BhavanamJagadish and Ashok Robert.J, "An Efficient Architecture For Primary Synchronization Signal Detector" International Journal of Advanced Research in Electrical, Electronics & Instrumentation Engineering, Volume 2, Issue 4, April 2013.
- 7) Mathana J.M, Ashvanth.R, BhavanamJagadish and Ashok Robert.J, "Design And Analysis of an Efficient Primary Synchronization Signal Detector" American Journal of Engineering Research (AJER), Volume 2, Issue 4, April 2013
- 8) Mathana J.M, Ashvanth.R, BhavanamJagadish and Ashok Robert.J, "A High Performance Primary Synchronization Signal Detector" accepted in International journal (IJCNWMC).

- 9) Mathana J M., Anusha S L., Jamal Hajara Parveen J M H., and Vaishnavi J 'Performance analysis of OFDM based IEEE 802.11 Receiver with Autocorrelation technique and CORDIC Algorithm' is accepted by AJER (American journal of Engineering Research), April 2013.
- 10) Mathana J M., Anusha S L., Jamal Hajara Parveen J M H., Vaishnavi J P., 'Performance analysis of Autocorrelation technique and CORDIC Algorithm based IEEE 802.11 Receiver' International Journal of Computational Engineering Research, May 2013
- 11) Mathana J.M , Snehasri D.G., Suganya S. and Vanishree P., 'Design of a low complexity FFT block for WLAN application in OFDM' accepted to 'International Journal of Advanced Research in Computer Engineering and Technology (IJARCET)', India.
- 12) Mathana J.M., Snehasri D.G., Suganya S., and Vanishree P. J.M., 'A low complexity FFT block for WLAN application in OFDM' accepted to 'International Journal of Computer technology and applications (IJCTA)', India.

STAFF ACTIVITIES

CONFERENCE PUBLICATIONS

- 1) A.Indhumathi, V.Vinoba and Padmavathy T.V presented a paper on Optimum Path Finding Routing Protocol Using Quadratic Assignment In Wireless Sensor Networks. International Conference on Applied Mathematics and Theoretical Computer Science - 2013, held on 24.01.2013 and 25.01.2013 at St. Xavier's Catholic College Of Engineering, Nagercoil, India.
- 2) S.M.Chithra, V.Vinoba and Padmavathy.T.V presented a paper on Link Reliability Routing Protocol In Wireless Sensor Networks Using Game Theory Approach. International Conference on Applied Mathematics and Theoretical Computer Science - 2013, held on 24.01.2013 and 25.01.2013 at St. Xavier's Catholic College Of Engineering, Nagercoil, India.
- 3) N.G.Praveena and A.Manikandan presented a paper on Cross layer design combining AMC with ARQ through GMSK under prescribed QoS, IEEE in the International Conference on Smart Structures and Systems, on 29.03.2013.
- 4) T.S.Arulananth presented a paper in Optimized Technique

for Human Face Recognition & Detection System in the International Conference on computing, Comm. & Advanced N/W (ICCCAN2013), held at Chennai Institute of Technology from 15.03.13 TO 17.03.2013.

SEMINARS, WORKSHOPS AND FDP'S ATTENDED

- 1) Mr.T.S.Arulananth, Asst.Prof. attended an FDP on Emerging Trends in Electrical & Embedded Technologies by M/s. Trident Tachlabs Pvt. Ltd. at Velammal Engg. College on 09.02.2013.
- 2) Ms.N.G Praveena, Mr.A.Manikandan attended Tutorial Sessions on Micro & Nano Electronics in 2013 IEEE in the International Conference on Smart Structures and Systems at Saveetha Engg. College on 28.03.2013 and 29.03.2013.
- 3) Mr.V.Sudharsanam, Asst.Prof., attended an FDP on Emotional Intelligence by Cognizant at Cognizant, Chennai on 08.04.2013.
- 4) Ms.D.Vijayakumari, Asst.Prof., Ms.S.Poovizhi Asst.Prof., and Ms.K.Dhivya, Asst.Prof., attended a one day national seminar on Research Methodology, PROJECTS & Consultancy held at Velammal Engg. College on 17.05.2013.
- 5) Mr.S.Muthumanickam, Asst.Prof., attended an FDP on Research issues in Mobile Adhoc & Sensor n/w security at Kongu Engg. College from 06.05.2013 to 19.05.2013.
- 6) Dr.N.Gangatharan, Prof. & Head and Ms.V.Kannagi, Asso.Prof., attended Workshop on NBA New Outcome Based Accreditation at RMKEC on 29.04.2013 and 24.05.2013 to 26.05.13.
- 7) Dr.N.Gangatharan, Prof. & Head and Dr.C.Arun Prof., attended ISTE-SRM Short Term Training Program on Web Technology, at RMK CET, from 03.06.2013 to 07.06.2013.
- 8) Mr.T.S.Arulananth Asst.Prof., and Ms.V.Kannagi, Asso.Prof., attended an FDP on Digital Image Processing at RMKEC from 05.06.2013 to 12.06.2013.
- 9) Mr.Siva Prasad Lebaka, Asst.Prof., Mr.P.Sathyaraj Asst.Prof. and Ms.M.R.Akila Asst.Prof. attended an FDP on Signals and Systems at MIT, Anna University from 10.06.2013 to 16.06.2013.
- 10) Mr.A.Manikandan Asst.Prof. attended a two day Hands on course on DSP using OMAP -L138 Board. at Texas Instruments on 17.06.2013 and 18.06.2013
- 11) Dr.N.Gangatharan, Prof., Dr.C.Arun, Prof., Dr.T.V.Padmavathy, Prof., Mr.S.Muthumanickam Asst.Prof., Ms.S.Seshavidhya, Asso.Prof., Ms.P.Sivalakshmi Asst.Prof., Ms.A.Chitra Asst.Prof., Mr.K.Kannan Asst.Prof. and Ms.K.Sangeethalakshmi Asst.Prof. attended a Workshop on Research Challenges in RF and Wireless Communication at IIIT, Kanchipuram on 21.06.2013 and 22.06.2013.
- 12) Ms.T.Indhumathy Asst.Prof. attended an FDP on Hands on Training on design finishing for chip tapeout at RMKEC from 17.06.2013 to 29.06.2013.
- 13) Ms.N.G.Praveena, Asso.Prof., attended an FDP on Recent trends in Wireless Communications at SVCET, Thirupachur from 27.05.2013 to 31.05.2013.
- 14) Mr.R.Vijayanandh Asst.Prof., attended a Workshop on Analog Electronics at LICET from 04.06.2013 to 14.06.2013.
- 15) Ms.P.Sivalakshmi Asst.Prof., Mr.V.Sudharsanam Asst.Prof., Mr.P.Sathyaraj Asst.Prof., Mr.Sivaprasad Lebaka Asst.Prof., Mr.K.Kannan Asst.Prof. and Ms.Shimila Asst.Prof. attended an FDP on Nurturing next generation at RMKEC from 25.06.2013 to 02.07.2013.
- 16) Ms.K.Sangeethalakshmi Asst.Prof., Ms.A.Chitra Asst.Prof., Ms.D.Vijayakumari Asst.Prof., Ms.S.Poovizhi Asst.Prof., Ms.K.-Dhivya Asst.Prof., Ms.Sandhiya Asst.Prof., Mr.Sathish kumar Asst.Prof., Mr.Sabari Sivashankar Asst.Prof. attended an FDP on Effective Teaching Skills at RMKEC from 25.06.2013 to 06.07.2013.
- 17) Dr.N.Gangatharan, Prof. & Head and Ms.V.Kannagi, Asso.Prof., attended Workshop on NBA New Outcome Based Accreditation at RMKEC on 29.04.2013 and 24.05.2013 to 26.05.13.

STUDENT ACTIVITIES

Academic – Laurels Won

- 1) B.Vaishali N.Vignesh S.Vinithkumar A.M.Raghav M.Subhashini ,of III Year participated in An International Techno-Management Fest,Event PIRATES OF K! and won I prize, held at CEG,AnnaUniversity from 30.01.2013 to 02.02.2013.
- 2) K.Subramanian A.Venkatachalam of III Year presented a Paper in the Symposium STREAKZ2013 and won II prize , held at P.B. College of Engg. on 15.02.2013.
- 3) V.Vishnu, S.R.Kathik, R.Ashok kumar and A.M.Raghav of III Year participated in the event Daksh Champions League - ROBO SOCCER at DAKSH 7,the International Techno-Management Fest and won III prize, held at SASTRA University from 22.02.2013 to 24.02.2013.
- 4) Prakash Naveen and S.Nowfel Rizwan of III Year participated in the events Best Partners WOW CHAA - won I Prize and WOW CHAA-REVERSE ENGG. - won I Prize in the symposium JET ELBLOOMS'13 held at Jeppiar Engg. College on 27.03.2013..

Academic – symposium,workshop, training participated

- 1) K.Charen, R.Ashok kumar ,Dilli Prasanth, V.Vishnu and S.R.Karthick of III year ECE Participated in the event ORNITHOPTER by Shaastra 2013,held at IIT,MADRAS, from 05.01.13 to 08.01.13.
- 2) B.Vaishali,M.Sujithra, M.Chitharath,N.Vignesh, of III year ECE Participated in the event ROBO LAGORI by Shaastra 2013,held at IIT,MADRAS, from 05.01.13 to 08.01.13.
- 3) M.Chitharath R.Ashok kumar,Devaraj of III year ECE Participated in the Workshop on ROBOTICS by Shaastra 2013, held at IIT,MADRAS, from 05.01.13 to 08.01.13.
- 4) S.Pavithra, C.H.Neelima Shirisha,A.Monica,L.Deepthi Shekar,M.Abinayalakshmi,S.Annapoorani, BonnyMaryBlessan, J.Dhivya, A.Kavitha, K.Divya, V.Nireka, B.Anubama

- 5) N.Anesha,B.Deepika,T.Abinaya, L.Nirmala of III year ECE Participated in the event Certified Ethical Hacking Expert Level 1.0&2.0 Workshop, held at MIT,Chennai, from 21.01.13 to 23.01.13.
- 6) G.Dulasi Abirami of III year ECE Participated in Zonal rounds of RoboTryst-2013 a National level robotics Championship held at Thiagarajar College of Engg ,from22.01.13 to 24.01.13.
- 7) R.Deepika S.Preethi ,R.Rajeshree of III year ECE Participated in the National Workshop on Lab View,held at Saveetha School of Engg., Saveetha University, on 24.01.13 &25.01.13.
- 8) T.John Smith ,M.Lokeshwaran A.Venkatachalam ,K.Subramanian of III year ECE Participated in Workshop on Embedded Systems, held at Dept. of E&I, RMKEC,on 11.02.2013.
- 9) U.Sowmiya of II year ECE Participated in the Symposium events PC BUILDER,QUIZ,ADZAP held at Mamallan Institute of Technology, on 26.02.13
- 10) R.Parthasarathy ,T.John Smith of III year ECE Participated in Basic session of ANDROID Workshop,held at COE,GUINDY,on 17.03.13.
- 11) A.Venkatachalam V.Vishnu S.R.Kathik R.Jeyakumar of III year ECE Participated in the event LINELESS FOLLOWER & KEYSTONE at DAKSH 7,the International Techno-Management Fest. held at SASTRA University from 22.02.13 to 24.02.13.
- 12) A.Venkatachalam R.Jayakumar of III year ECE Participated in the event LINELESS FOLLOWER at DAKSH 7,the International Techno-Management Fest. held at SASTRA University from 22.02.13 to 24.02.13.
- 13) A.Venkatachalam V.VishnuS. R.Kathik of III year ECE Participated in the event THE EVIDENCE at DAKSH 7,the International Techno-Management Fest. held at SASTRA University from 22.02.13 to 24.02.13.
- 14) V.Vishnu S.R.Kathik of III year ECE Paper presented in DAKSH 7,the International Techno-Management Fest. held at SASTRA University from 22.02.13 to 24.02.13.
- 15) A.Venkatachalam V.Vishnu of III year ECE Participated in the event MANAGE-MEN-T at DAKSH 7,the International Techno-Management Fest. held at SASTRA University from 22.02.13 to 24.02.13.

16) S.Vinithkumar,Sridhar,T.Vengadesh of III year ECE Participated in an Oral presentation of research work in 2013 IEEE International Conference on Smart Structures and Systems, held at Saveetha Engg. College on 29.03.2013.

17) S.Vinithkumar,Sridhar,T.Vengadesh of III year ECE Attended Tutorial Sessions on micro& nano electronics in 2013 IEEE International Conference on Smart Structures and Systems, held at Saveetha Engg. College, on 28.03.13 &29.03.13.

18) Prakash Naveen ,M.Prathap of III year ECE Participated in Symposium, held at B.S.Abdur Rahman University on 18.03.13.

19) Prakash Naveen of III year ECE Participated in Symposium in the event Tech Debate(JET ELBLOOMS'13), held at Jeppiar Engg. College on 27.03.2013.

20) T.John Smith of IV year ECE attended Workshop on Biometric at IBM, on 18.03.2013.

21) T.John Smith of IV year ECE attended Workshop on LINUX &Networking at IIT Madras from 18.06.13 to 22.06.13.

TRAINING AND PLACEMENT CELL

TRAINING PROGRAMMES

1) ERICSSON EXCEL CERTIFICATION EXAMINATION for 2009 13 Batch ECE students was conducted by M/s.Ericsson India Pvt.Ltd. on 04.01.2013.

2) Accenture Head Start Foundation Program (HSFP – Technoical Training 19 Days and Soft skills Training 3 Days) was conducted by M/s.Accenture Services India Ltd. For all the Accenture Recruits on 29.01.2013 to 28.02.2013.

3) Expert Leaders from British Council conducted Orientation Programme – Business English and its importances for Carrier Growth for Second year B.E/B Tech students on 05/01/2013.

4) Cognizant Technology Solutions Ltd. conducted “Evolve” for the pre-final year Students on 14.03.2013.

5) M/s. Ericsson India Pvt. Ltd. Launched the EMPOWER University Program for the pre-final year ECE students on 22.04.2013



6) Ten days Business English Certification Training for Second Year B.E/B Tech students was conducted by M/s.Stirdies Consulting Inc. and Focus Academy for Career Enhancement Ltd. From 07.01.2013 to 09.01.2013, 11.02.2013 to 13.02.2013 and 11.03.2013 to 13.03.2013.

7) Smart Training Resource Pvt. Ltd. conducted Two Days Resume Writing Skills & Aptitude Training Programme for III year B.E/B.Tech students (from 12.02.2013 to 23.02.2013).

8) Mr. V Viswanathan, Campus Head India, M/s.Wipro Technologies Ltd. Visited our Campus on 13.04.2013 and after distributing the letter to Wipro recruits, conducted an eye opening interactive session for them.

9) Leadership Team and HR Executive from Tata Consultancy Services Ltd. Conducted Post Recruitment Meet for TCS recruits on 24.04.2013.

10) Stirdes Consulting Inc. conducted BEC-Diagnostic Test for 2nd Year students on 28.12.2013

11) Executives from British Council conducted orientation Program on „Business English certificate and it’s importance’s for Career Growth” for 2nd year students on 05.01.2013

12) Pre-Final Year students attended the “Educational Fair of UK & Singapore Universities” on 08.02.13.

□ A presentation on “Admission to UK Universities” was arranged for Pre-Final Years on 30.01.201

UNIVERSITY RANK HOLDERS

S. No	Name of the student	University rank
1	INDHUMATHI V	34 TH RANK
2	VIDHYA.M	39 TH RANK
3	SUJITHA .A	48 TH RANK
4	SEETHA.V.K	50 TH RANK

CAMPUS RECRUITMENT

No of Students registered	No of Students Selected	
	<i>Effective placement</i>	Dual Placement
71	48	16+1

S.No	Company Name	No of Students
1		4
2		36
3		21
4		3
5		2

ANNUAL DAY AWARDS

S.No	STUDENT NAME	AWARD
1	R ASHWANTH	BEST OUTGOING STUDENT
2	J.P VAISHNAVI	BEST ACADEMIC STUDENT

ARTICLE

TRANSISTORS AND FLEXIBLE INTEGRATED CIRCUITS USING CNTS

Nanoelectronics is concerned with understanding and exploiting the properties of devices, which have dimensions at the nanometre scale. Nanoelectronics hold some answers for how we might increase the capabilities of electronics devices while we reduce their weight and power consumption. This involves reducing power consumption while decreasing the weight and thickness of the screens. Increasing the density of memory chips, researchers are developing a type of memory chip with a projected density of one terabyte of memory per square inch or greater. Reducing the size of transistors used in integrated circuits

New results on VLSI-scale technique to deal with metallic carbon nanotubes for circuit design and their experimental demonstration of imperfection immune VLSI-compatible CNT circuits take us closer to making integrated circuits using carbon nanotubes a practical reality. Nano diodes facilitate a high switching speed. Nano capacitors can store 100 times more energy than previous devices of its kind. Nano batteries utilize normal sunlight, able to retain energy for long duration.

- Dr T V Padmavathy

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