



REVA
Institute of Technology
& Management



Inside this issue

	Page No.
New Faculty	2
Student best paper award	2
Research activities	2
Journal paper publications	3
Conference paper publications	4
Student paper publications	5
Workshops/Events conducted	8
Faculty contributions	
FORCE/IEEE activities	9
Guests visited	9
Toppers & Placements	10
Photo gallery	11
Technical article	13
Biography	14

Editorial

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Guest Editor

I am extremely delighted to note that the department of ECE is releasing its ninth newsletter "e-UDANTAKA". The department in the last decade has published a large number of quality technical papers in reputed journals of very high impact factor. The department has also taken up lot of R&D projects with substantial funding from various industries, research organizations and government agencies. The faculty members of the department have guided students in carrying out a large number of industry oriented projects which were very well appreciated by industry & research organizations. The entire department under the guidance of Dr. S. S. Manvi, is working very hard for the benefit of student community, society and industry at large. This ninth volume of e-Newsletter will definitely bring the glory of the research culture and also take the REVA ITM to greater heights. I wish the department the very best for their future endeavors.

Dr. N. Ranapratap Reddy
Principal, REVA ITM

Chief Editor

The faculty and students of the department are involved in research and development projects in the areas of VLSI, signal processing, communications, wireless networking, and embedded systems. We have published more than 50 publications in this quarter and have conducted several workshops for enhancing the knowledge of engineering professionals. About 90% of the students in our department have been placed in industries and some have been admitted to institutions abroad for higher studies.

Dr. Sunilkumar S. Manvi
Dean-R&D, HOD, ECE

New Faculty

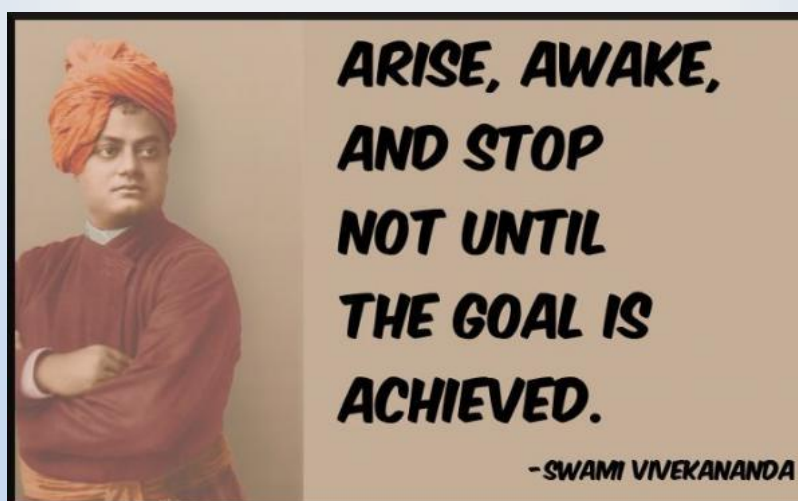
Ms. Sushma T. R. – Assistant Professor

Student Best Paper Award

B. Roopa, Sunilkumar S. Manvi “Image Fusion Techniques for Wireless Sensor Networks: Survey” ITSI Transactions on Electrical and Electronics Engineering, volume 2, issue 2, pp.13-19, 2014. (Best paper award in international conference on “Advance Engineering & Technology” (ICAET) held in Bangalore on 23rd March, 2014.)

Research Activities & Research Proposals - 2013

Sl. No.	Name of the Faculty	Name of Grant Agency	Title of the Project /Proposal	Duration	Cost of the project	Status
1	Dr. R. C. Biradar & Mrs. Geeta D.	VTU BGM	Cognitive agent based resource estimation and QoS routing management in mobile Ad Hoc networks	3 years	Rs.9.20 Lakhs	On going
2	Dr. S. S. Manvi & Mr. P. V. Joshi	KFIST Level 1 VGST	Up gradation of PG labs and creation of research facilities in VLSI, ES and communications	3 years	Rs. 20.00 Lakhs	On going
3	Dr. S. S. Manvi	VTU BGM	Cognitive agent based information fusion in wireless Sensor networks	3 years	Rs. 14.50 Lakhs	On going
4	Dr. T. V. Rama Murthy	Dept. of Space. (GOI)	Reliability & fault tolerance	3 days workshop	Rs. 20.00 thousand	Completed



Journal Paper Publications

1. P. I. Basarkod, S. S. Manvi, "On-demand QoS and stability based multicast routing in mobile Adhoc networks", International Journal of Telecommunications and Information Technology, accepted for publication 2014.
2. P. I. Basarkod, S. S. Manvi, "On-demand bandwidth and stability based unicast routing in mobile Adhoc networks", International Journal of Electronics and Telecommunication , 10.2478/eletel-2014-0003, Vol. 60, No. 1, 2014, pp. 27-39.
3. P. I. Basarkod, S. S. Manvi, "Mobility and QoS aware anycast routing in mobile adhoc networks", International Journal of Computer and Electrical Engineering, Elsevier, Submitted.
4. M. S. Kakkasageri, S. S. Manvi, "Safety information management in vehicular Ad-hoc networks: A Review", Elsevier, Journal of Network and Computer Applications, Vol. 39, No. 1, 2014, pp. 334-350.
5. M. S. Kakkasageri, S. S. Manvi, Jeremy Pitt, "Cognitive agent based critical information gathering and dissemination in vehicular Ad hoc networks", Springer, Wireless Personal Communications, Vol. 69, No. 4, 2013, pp. 1107-1129.
6. Mahantesh G. Kambalimath, M. S. Kakkasageri, S. S. Manvi, "Reliable data delivery in vehicular Ad hoc networks", proceedings of Eighth International Conference on Broadband and Wireless Computing, Communication and Applications (BWCCA 2013), Paris, France, October 2013, pp. 316-322.
7. V. R. Budyal, S. S. Manvi, "ANFIS and agent based bandwidth and delay aware anycast routing in mobile ad hoc networks", Elsevier, Journal of Network and Computer Applications, Vol. 39, March 2014, pp. 140-151.
8. V. R. Budhiyal, S. S. Manvi, "Agent driven delay and power constrained multicast routing in MANETs using ANFIS", Springer, Wireless Personal Communications, Vol. 75, No.1, March 2014, pp. 531-556.
9. Manjula R. B., Sunilkumar S. Manvi, "Coverage and connectivity based deployment of sensor nodes in three dimensional (3D) underwater acoustic sensor network", IEEE Journal of Oceanic Engineering (Submitted).
10. Seema Singh, T. V. Rama Murthy, "Simulation of sensor failure accommodation in flight control system of transport aircraft: A modular Approach", Academic Press, World Journal of Modeling and Simulation, 2014, (under Revision).
11. Seema Singh, T. V. Rama Murthy, "Neural network based sensor fault detection and reconfiguration for a fighter aircraft model", DESIDOC, Defense Science Journal, 2014, (under revision).
12. Seema Singh, T V Rama Murthy, "Design of an optimal yaw damper for 747 jet aircraft model", Springer, Lecture notes in Electrical Engineering (LNEE), Vol. 248, 2013, pp. 801-810.
13. Seema Singh, T V Rama Murthy, "Neural network-based sensor fault accommodation in flight control system", De Gruyter, Journal of Intelligent Systems, Vol. 22, No. 3, 2013, pp. 317-333.
14. Geetha D. D., Nalini N., R. C. Biradar, "Fault tolerance in wireless sensor network using hand-off and dynamic power adjustment approach", Elsevier, Journal of Networks and Computer Applications, Vol. 36, 2013, pp. 1174-1185.
15. Geetha D. D., Nalini N., R. C. Biradar, "Trust based neighbor identification in wireless sensor networks using agents", IOS Press, AI Communications, June 2013. Under revision.

16. Geetha D. D., Nalini N., R. C. Biradar, "Secured routing in wireless sensor networks using fault-free and trusted nodes", Wiley, International Journal of Communication Systems, Feb. 2014. Accepted.
17. Geetha D. D., Nalini N., R. C. Biradar, "Trusted neighbor based secured routing scheme in WSN using agents", Springer, Wireless Personal Communications, May. 2013, In Press, Accepted, Available online.
18. Shilpa Mehta , K. Soundararajan, U. Eranna, Bharathi S. H., "Intelligent system for automated traffic signal control using fuzzy mamdani model", International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Vol.2, No.6, 2013, pp. 125-129.
19. Manjunath R. Kounte, Dr. B. K. Sujatha, "A review of modeling visual attention using computational cognitive neuroscience for machine vision", International Journal of Advanced Research in Computer and Communication Engineering, Vol. 2, No. 9, 2013, pp.3558 - 3563
20. Mohammed Riyaz Ahmed, B. K. Sujatha, "A review of reinforcement learning in neuromorphic VLSI chips using computational cognitive neuroscience" , International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), Vol. 2, No. 8, 2013, pp. 3558-3563, ISSN: 2319-5940.
21. Raveendra Gudodagi, Vidyasagar K. N., Aravind H. S., "Segmentation of acl in MR images", International Journal of Engineering and Computer Science ISSN: 2319-7242, Vol.2, No. 6, 2013, pp. 2033-2036.

Conference Paper Publications

1. P. I. Basarkod, S. S. Manvi, "Node movement stability and congestion aware anycast routing in mobile ad hoc networks", 4th IEEE International Advance Computing Conference (IACC-2014, Gurgaon, India, Feb. 2014.
2. Manjula R. B., Sunilkumar S. Manvi, "Coverage optimization based sensor deployment by using PSO for anti-submarine detection in UWASNs", Ocean Electronics (SYMPOL), 2013, Kochi, Kerala, India, Oct. 2013, pp. 15-22.
3. Nagesha, S. S. Manvi, "QoS mapping from user to network requirements in WMSN: A fuzzy logic based approach", IEEE International Advance computing conference (IACC), Gurgaon, India, Feb. 2014, pp. 137-142.
4. Venkata Siva Reddy, Bharathi S. H., "Soft core processor for electrostatic precipitator controller", ICESP XIII, Bangalore, India, Sep. 2013.
5. Pameela Kumari N., K. S. Gurumurthy, "Quantum dot cellular automata: A review", Proceedings of International Conference on Advances in Computing and Information Technology, Thailand, 2014, pp. 51-55.
6. Pameela Kumari N., Prashant V. Joshi, K. S. Gurumurthy. "Realization of basic gates using universal logic blocks in quantum dot cellular automata", IEEE International Conference on Emerging Trends in Engineering and Technology (ICETET), Nagpur, 2013, pp. 50-51.
7. Ashritha M., Sunilkumar S. Manvi, Shrikant S. Tangade, C.S. Sridhar, "A survey on authentication models in vehicular ad hoc networks" National onference on Advanced Researches in Electronics and Communication Engineering (NCAREC-2014), Bangalore, India, Apr. 2014, pp. 01-04.
8. Sharada Suresh Dambal, Bharathi S. H. "Low power hybrid modified viterbi decoder for wireless communication", National Conference on Advanced Researches in Electronics and Communication Engineering (NCAREC-2014), RLJIT, Bangalore, 2014.

Student Paper Publications

1. Nagendra B. K., Nirmal Kumar S. Benni, "An high energy efficient modified aodv algorithm for mesh networks" National Conference on Recent Advance In Science, Engineering And Technology (NCRASET-14) , organized by Dept. of CSE, Sri Venkateshwara college of engg. Bangalore, on 23rd May, 2014, pp. 225-228.
2. Paveena R., Hemalatha N. "A survey on manets and its routing protocol" at 2nd National Conference on Wireless Control & Communication Technologies (NCWTC-2014), Organized by Dept. of TCE, Dr. AIT Bangalore, India, on 24th & 25th April, 2014. pp 74-78.
3. Paveena R., Hemalatha N. "A survey on neighbor coverage-based probabilistic rebroadcast for reducing routing overhead in mobile ad hoc networks (MANETs)" at 1st National Conference on Electrical and Electronics Engineering (NCEEE-2014-72), Bangalore.
4. B. Roopa, S. S. Manvi "Image fusion techniques for wireless sensor networks: survey" ITSI Transactions on Electrical and Electronics Engineering, volume 2, issue 2, pp.13-19, 2014.
5. Chamundeshwari Tuppad and Geeta D. "A survey on fault tolerance in wsn using distributed multipath routing scheme" at National Conference on Recent Advances in Science & Technology (NCST-2014) conducted at Bheemanna Khandre institute of technology Bhalki, India, from 22nd to 23rd March, 2014.
6. Chamundeshwari Tuppad and Geeta D. "A survey on fault tolerance in wsn using distributed multipath routing scheme" at National Conference on Recent Advances in enkatেশwara Science & Technology (NCST-2014) conducted at Bheemanna Khandre institute of technology Bhalki, India, from 22nd to 23rd March, 2014.
7. Gowdar Chandrashekar, Sunilkumar S. Manvi "A survey on fuzzy logic based congestion control protocols in wireless sensor networks", Proceedings of Second National Conference on Wireless Control & Communication Technologies (NCWCT-2014), Bangalore, India, April. 2014, pp. 50-54. ISBN No. 9788192710471
8. Harish, Manjunath R. Kounte "Neural network approach for energy efficient clustering and routing in wireless sensor networks" at National Conference on Electrical & Electronics Engg. (NCE3-14), conducted by HKBK college of engg., Bangalore, India, on 5th June, 2014.
9. Geetha D., Jnaneshwari K., Nalini N., R. C. Biradar, "A survey of data aggregation protocols in wireless sensor networks", Proceedings of Second National Conference on Wireless Control & Communication Technologies (NCWCT-2014), Bangalore, India, April. 2014, pp. 1-4. ISBN No. 9788192710471
10. Kumara Swamy H. N., Nirmal Kumar S. Benni, "A survey on fault node recovery algorithm for a wireless mesh networks", Proceedings of Second National Conference on Wireless Control & Communication Technologies (NCWCT-2014), Bangalore, India, from 24th to 25th April, 2014, pp. 253-256. ISBN No. 9788192710471
11. Pramod Kumar K., Manjunath R. Kounte, "Modelling of Artificial intelligence based localization algorithm for wireless sensor networks" International Conference on Information and Communication Technologies (ICICT-2014)pp.238-242, Shimoga, India, from 5th to 6th May, 2014.
12. Rachana, Seetha Rama Raju Sanapala "A survey on multi-criterion optimization of data forwarding Technique in wireless sensor networks" at 1st IEEE National Conf. on Electrical & Electronics Engg., NCEEE-2014 conducted at HKBK college of engg., Bangalore on 5th June, 2014. Paper ID NC3E14_9

13. Santosh Gani, Sunilkumar S. Manvi “Fault tolerance in wireless sensor networks- a survey” at Second National Conference on Wireless Control & Communication Technologies (NCWTC-2014), Bangalore, India, April. 2014, pp. 101-103.
14. Shamim Ahmed Tapadar, Seetha Rama Raju Sanapala “Density based traffic signal based on image processing” at 1st IEEE National Conference on Electrical & Electronics Engg. NCEEE-2014, at HKBK college of engg., Bangalore on 5th June, 2014, pp. 70.
15. Srilakshmi M.B., Shrikant S. Tangade “A survey on trust-aware routing protocols in wireless sensor networks”, Proceedings of Second National Conference on Wireless Control & Communication Technologies (NCWCT-2014), Bangalore, India, April, 2014, pp. 20-24. ISBN No. 9788192710471
16. Sunil M. K., Basarkod P. I. “Advanced video compression using accordion principle” at Second National Conference on Wireless Control & Communication Technologies (NCWTC-2014) organized by Dept., of TCE at Dr. AIT, Bangalore, India, from 24th & 25th April, 2014, pp. 278-280.
17. Nayana Hegde, Dr. Sunilkumar S. Manvi “Wireless sensor network security using symmetric key encryption: a survey” at 2nd National Conference on Wireless Control & Communication Technologies (NCWTC-2014) organized by Dept., of TCE at Dr. AIT, Bangalore, India, from 24th & 25th April, 2014, pp. 278-280.
18. Chaitra G. D., Rashmi Priyadarshini “Online interactive data acquisition and control system for the embedded real time applications” 1st IEEE National Conference on Electrical & Electronics Engg., NCEEE-2014 conducted by HKBK college of engineering, Bangalore on 5th June, 2014.
19. Anjani, Sanjeev Kubakaddi “Texture analysis of cartilage for early detection of osteoarthritis” 1st IEEE National Conference on Electrical & Electronics Engg., NCEEE-2014, 5th June, 2014. HKBK college of engg., Bangalore
20. Anjani, Sanjeev Kubakaddi “Automatic texture analysis of cartilage for early detection of osteoarthritis” International Journal of Engineering and Computer Science SSN:2319-7242 Volume 3 Issue – 5, May, 2014 pp- 6013-6016
21. Anushree M. N. “Design of optimal filter bank for multicarrier modulation systems” International Conference on Electrical Electronics and Data Communication on 1st June, 2014.
22. Azara Khatoun, Nayana D. K. “Forgery detection of a bayer pattern image based on analysis of cfa artifacts” 1st IEEE National Conference on Electrical & Electronics Engg., NCEEE-organised by HKBK college of engg., Bangalore on 5th June, 2014.
23. Girish G. V. Vidya Sagar K. N. “A comparison study of deblocking filter parameters in high efficiency video coding” 1st IEEE National Conference on Electrical & Electronics Engg., NCEEE-2014, organized by HKBK college of engg., Bangalore on 5th June, 2014.
24. Midhuna R., Shilpa Mehta “A neural network based hybridization approach for detecting cardiac disease” 6th International Conference on Intelligent Science and Technology – 2014
25. Nayana P. B. Sanjeev Kubakaddi “Implentation of hand gesture recognition technique for HCI using open CV” National Conference on Electrical & Electronics Engg. (NCE3-14), organized by HKBK college of engg. Bangalore 5th June, 2014.
26. Raghu J., Bharathi S. H., Vidyasagar K. N. “Image de-noising and post processing: A survey” 1st IEEE National Conference on Electrical & Electronics Engineering, NCEEE-2014, organized by HKBK college of engg. B'lore 5th June, 2014.

27. Raghu J., Bharathi S. H., Vidyasagar K. N. "Non-local image de-noising and post processing using KL transform" International Conference on Advances in Electronics, Computers and Communications (ICAIECC), REVA ITM, Bangalore.
28. Raghu K. "Scalable video compression by employing TEMPO-SPA arrangement along with combined ADCT, retaining-RLE method" International Journal of Computer Applications (0975 – 8887) Volume 88 – No.11, February, 2014.
29. Renukamba.J. N., Savitha P. R., R. L. Dodamani "Comparison of performance of different types of constant false alarm rate used in signal processor of surveillance RADAR" 1st IEEE National Conference on Electrical & Electronics Engg., NCEEE-2014, organized by HKBK college of engg., Bangalore 5th June, 2014.
30. Shwetha.N., Shilpa Mehta "Adaptive filter equalization optimization using hybrid approach" National Conference on Emerging Trends in Communication and Bio Medical Engineering(NCECB-2014)
31. Akash B., Yashodha H. "Generation and implementation of pseudorandom codes for navigation system in FPGA" International Journal of Electronics, Electrical and Computational System. Accepted, Paper No. 9D0F0L, available at <http://www.academicscience.co.in>
32. Aruna M., Usharani G. "Simulation & implementation of complex multiplier using vedic mathematics". International Journal of Emerging Trends in Science and Technology. Accepted June, 2014.
33. Latha S., Bharathi S. H. "Generalised booth wallace fast multiplier" Second National Conference on Recent Advances in Science, Engineering & Technology (NCRASET-14) conducted by Sri Venkateshwara college of engineering, Bangalore on 23rd May, 2014.
34. Mahadevi H., Manjunath G. Asuti. "Design of low power ALU using cadence" NCEEE-2014, conducted by HKBK college of engineering, Bangalore on 5th June, 2014.
35. Mamatha N. P., A. Raganna "Analysis of integrated optical structure for bio-sensing applications: review" has been submitted to the conference "ICSSP'14" organized by TKM college of engineering Kerala.
36. Manjula B. K., Prameela Kumari "Discrimination between inrush and fault current of a transformer using FPGA" paper to be submitted to IEEE Conference.
37. Nandish.N , Manjunath. G. Asuti "Design and implementation of parallel MLP-back propagation neural network technique for image compression and decompression on FPGA" National Conference on Advanced Research in Electronics & Communication 2014 (NCAREC-2014) organised by R. L jalappa institute of technology, Doddaballapura from 22nd to 23rd April, 2014.
38. Pavan Kumar E., Yashoda B. H. "SSVEP EEG signal with pattern recognition techniques to control robo arm" International Journal of Electronics, Electrical and Computational System IJEECS ISSN 2348-117X Volume 3, Issue 4, June, 2014. With Impact Factor 1.88
39. Shashi Rekha K., Divya M. N., Archana Mane "RTL design and implementation of stream cipher using cellular automata" 7th IEEE Conference on RF & Wireless ICON RFW-14, conducted by HKBK college of engineering, Bangalore from 8th to 10th May, 2014.
40. Shivakumar M. V., Anitha Kumari "A novel approach towards performance analysis of vedic multiplier using FPGA's" at International Journal of Electronics, Electrical and Computational System, May, 2014.
41. Shreedhara Naik B. S., Manjula R. B., Sunilkumar S. Manvi "Design and implementation of backtracking switch for M8-Noc" Paper submitted.

42. Subiya Yaseen, Yashoda H., Syeda Husna Mohammadi, Sumaya Fathima “FPGA based architecture of a telecommand System-on-Chip (SoC) for transfer of signals from ground station to spacecraft” at 7th IETE ICon RFW-2014, organized by HKBK College of Engg. Bangalore, 8th to 10th May, 2014.
43. SubiyaYaseen, Yashoda H., Renu Siddagangappa, Shaik Aleem Ur Rehaman, Subiya Mehreen “System on chip (Soc) development for spacecraft applications using FPGA” 1st IEEE National Conference on Electrical & Electronics Engg., NCEEE-2014, organised by HKBK College of Engg., Bangalore on 5th June, 2014.
44. Sufia Banu, Divya M. N., Subiya Yaseen “Down sampling review” at International Conference on Application of Soft Computing Techniques in Engineering & Technology (ASTET 2014) held at Bangalore on 23rd March, 2014.

Workshops/Events Conducted

1. Conducted 5 days workshop on “Digital Design & Verification” in association with UTL Technologies, Bangalore from 24.02.2014 to 01.03.2014.
2. Conducted 1 Day workshop on “Embedded Systems” in association with MaMinno Technologies, Bangalore on 1st March, 2014. Resource person was Mr. Prasad of MaMinno Technologies.
3. Conducted technical talk on “Recent Trends in Networking” resource person was Mr. Prabhu Gowdar Biradar of Huawei Technologies, Bangalore on 08.03.2014.
4. Conducted technical talk on “Recent Trends in Nanotechnology” resource person was Dr. Nirmal Kumar from Karunya University, Coimbatore. Tamilnadu, India on 24.03.2014.
5. Conducted 2 days workshop on “Network Simulator NS-2” Resource persons were Dr. S. S. Manvi, Prof Mylara Reddy, Prof. Manjula R. B., Prof Shrikant Tangade & Mr. Nirmal Kumar S. Benni of REVA ITM, from 28.03.2014 to 29.03.2014.

Workshops & Seminars Attended by Faculty

1. Mrs. Anitha Kumari R. D., Mrs. Divya M. N. & Mr. Manjunath G. Asuti attended ten day FDP on “Signals & Systems” on 02.01.2014 to 12.01.2014. Conducted by REVA ITM, Bangalore in association with IIT Bombay.
2. Mr. D. S. Albur attended 5 Days Conference on “Winter School for Speech and Audio Processing (WiSSAP’14)” from 16-01-2014 to 20.01.2014 Organized by International Institute of Information and Technology, Gachibowli, Hyderabad.
3. Mr. Sreedhar N. attended one day workshop on “Practical Components of Personal Growth & Interpersonal Effectiveness” held at MSRIT, Bangalore, on 21.02.2014.
4. Mr. N. S. Benni & Mr. Shrikant S. Tangade attended 3 days Workshop on “Simulation of Wireless Networks using NS2” from 23.01.2014 to 25.01.2014 held at REVA ITM, Bangalore.
5. Mrs. Prameela Kumari N. and Mr. Prashanth V. Joshi attended 3 days International conference on “2nd IEEE International Conference on Devices, Circuits and Systems” from 06.03.2014 to 08.03.2014 at Karunya University, Tamilnadu, India.

Faculty Contributions

1. Dr. S. S. Manvi gave talk on "Protocol Specifications" during workshop on communication protocol engineering held at SIT, Tumkur, from 10.03.2014 to 12.03.2014.

Force Activities

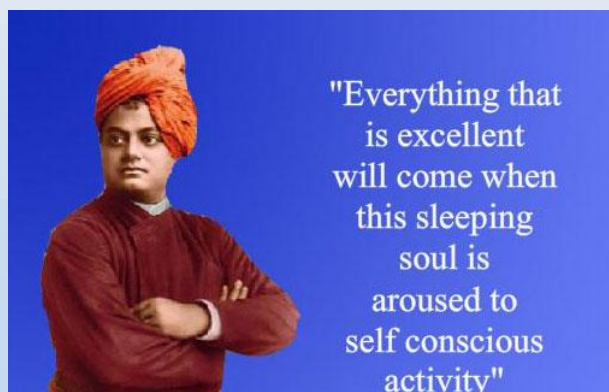
1. Sports day was organised, during which chess and carom competitions were being arranged for both faculty and students on 22nd Feb, 2014
2. A 5 days workshop was organised on "Digital design and verification" from 24th to 28th Feb, 2014.
3. A one workshop on ARM processor was organised on 1st March, 2014.
4. Harmonics 2014 was organised, which included the singing, dancing and dumb chards on 22nd March, 2014.
5. Aavishkar 2014 was organised, which included Microcontroller programming, HDL programming, Technical Quiz, Circuit Debugging, Paper Presentation and Project Demonstrations on 22nd and 29th March, 2014.
6. A two days workshop was conducted on "Network Simulator NS-2" on 28th & 29th March, 2014.

IEEE activities

1. Students of IEEE student Branch REVA ITM have volunteer AGM Meeting 9th Feb, 2014 at Royal Orchids Bangalore.
2. Students of IEEE student branch REVA ITM have volunteer international conference CONNECT 2014.
3. Organized two day workshop on JQuery on 25th and 26th of April, 2014 at REVA ITM.

Guests Visited

1. Mr. D. Uma Maheshwar, Executive section manager AAT, GE Aviation, Bangalore.
2. Mr. Prasad, MaMinno technologies, Bangalore.
3. Mr. Prabhu Gowdar Biradar, Huawei technologies, Bangalore.
4. Dr. Nirmal Kumar, Karunya university, Coimbatore. Tamilnadu, India.



Toppers UG

III Semester

Ramesh K. & Uma L. (87.00%)
Nandini (87.00%)
Sreedhar (83.00%)

V Semester

Veeresh P. Damur (85.00%)
Anand (83.00%)
Sakshi (82.00%)

VII Semester

Azra Sultana (81.00%)
Chaitra C. (79.00%)
M. Prashanti & Prathibha S. (78.00%)

Toppers PG

DCN I Semester

Chandrika B. K.(80.75%)
Chenchu Lakshmi S. (78.00%)
Pravalika S. (77.12%)

SP I Semester

Anupama R. (76.67%)
Shruthi B.M. (75.75%)
Harshvardhana T. (74.87%)

VLSI PT – I Semester

Suresh Guttula (82.44%)
Deepa.V.S (80.22%)
Somashankar.G.A. (77.77%)

VLSI FT – I Semester

Maruthi L. N.(80.12%)
Pallavi. (79.62%)
Raghavendra M. (76.50%)

VLSI PT – III Semester

Lavanya V. D. A. (83.71%)
Santosh Kumar B. (83.14%)
Ninagangouda B. (81.14%)

DCN III Semester

B. Roopa (72.20%)
Nayana Hegde (71.00%)
Sushma (67.80%)

SP III Semester

Raghu K. (85.60%)
Chaithanya V. (83.40%)
Manohar T. N. (83.00%)

VLSI FT – III Semester

Akhila S. (82.60%)
Sharada Suresh D. (78.60%)
Nitesh (80.60%)

VLSI PT – V Semester

Subiya Yaseen (80.06%)
Aruna M. (78.60%)
Akash B.& Mahadevi H. (77.80%)

Placements & Higher Studies

Aricent - 03
IBM - 03
Amazon - 06
NTT Data - 09
TCS - 03
Capgemini - 10
Torry Harris - 03
Infosys - 07

Sunrise Biztech Systems - 07
Global edge Software - 02
Amazon - 03
L & T Engineering Service- 02
ECE² - 01
Higher Studies - 15

Photo Gallery



Workshop on “Digital design & verification” 24th Feb, 2014 to 1st March,



Workshop on “Embedded systems” on 1st March, 2014.



Technical talk on “Recent trends in networking” on 8th March, 2014.



Chess competition to students on 22nd March, 2014.



Circuit debugging to students on 22nd March, 2014.



Harmonics for students on 22nd March, 2014.

Photo Gallery



“Microcontroller programming” contest on 22nd March, 2014.



Technical talk on “Recent trends in nanotechnology” on 24th March, 2014.



2 days workshop on “Network simulator NS-2” from 28th to 29th March, 2014.



Technical sessions by Mrs. Manjula R. B. for 2 days workshop on “Network simulator NS-2” from 28th to 29th March, 2014.



Technical talk on “Cyber security” on 10th June, 2014.



Drive on “Save the sparrows” on 2014

Technical Article – “Satellite Navigation”

A satellite navigation or sat navigation system is a system of satellites that provide autonomous geo-spatial positioning with global coverage. It allows small electronic receivers to determine their location to high precision using time signals transmitted along a line of sight by radio from satellites. The signals also allow the electronic receivers to calculate the current local time to high precision, which allows time synchronization.

IRNASS:

The Indian Regional Navigation Satellite System (IRNASS) is an autonomous regional satellite navigation system being developed by the Indian Space Research Organisation (ISRO) which would be under complete control of the Indian government. The requirement of such a navigation system is driven by the fact that access to foreign government-controlled global navigation satellite systems is not guaranteed in hostile situations. The IRNASS would provide two services, with the Standard Positioning Service open for civilian use and the Restricted Service, encrypted one, for authorised users (military).

IRNSS-1A

It is the first navigational satellite in the Indian Regional Navigational Satellite System (IRNSS) series of satellites been placed in geosynchronous orbit. The satellite has been developed at a cost of ₹1.25 billion (US\$21 million), and was launched on 1 July 2013. It will provide IRNSS services to the Indian public, which would be a system similar to Global Positioning System (GPS) but only for India and the region around it.

IRNSS-1B

It is the second out of seven in the Indian Regional Navigational Satellite System (IRNSS) series of satellites after IRNSS-1A. The IRNSS constellation of satellites is slated to be launched to provide navigational services to the region. It was placed in geosynchronous orbit on 4 April 2014. The satellite will help augmenting the satellite based navigation system of India which is currently under development. The satellite will provide navigation, tracking and mapping services.

Following are the other navigation satellites to be launched.

1. IRNSS-1C
2. IRNSS-1D
3. IRNSS-1E
4. IRNSS-1F
5. IRNSS-1G

Biography - Rajeswari Chatterjee - The first woman scientist to pioneer in the field of microwave engineering in india



Professor Rajeswari Chatterjee had her early education in a “Special English School” set up by her grandmother Kamalamma Dasappa, in the ‘Mahila Seva Samaj’ in Basavanagudi, Bangalore. She joined the central college, Bangalore, in 1939 where she received her B.Sc (Hons) and M.Sc degrees in mathematics and physics, both with first rank in Mysore University. She was awarded the “Mummadi Krishnaraja Wodeyar Award” for securing first rank in B.Sc (Hons), the M.T. Narayana Iyengar Prize and the “Walters Memorial Prize” for obtaining first rank in M.Sc. after completing her M.Sc in 1943, she joined the Indian Institute of Science (IISc), Bangalore as a Research Student in the then Electrical Technology Department in the area of Communication.

In 1946, she was selected as a "Bright Student" by the government of Delhi and was given a scholarship to go abroad to pursue higher studies, with this, she got admission to the University of Michigan in Ann Arbor, USA. At Michigan, she completed her master’s degree from the department of electrical engineering. She underwent practical training in the division of radio frequency measurements at the national bureau of standards in Washington D.C. In 1949, she completed her Ph.D early 1953 and returned to india soon thereafter. Later she joined the department of electrical communication engineering at IISc as a faculty member. She, along with her husband S. K. Chatterjee, initiated teaching and research in the area of microwave engineering, for the first time in India.

She subsequently became a Professor and also held the position of chairman in the department of electrical communication engineering, besides teaching electromagnetic theory, electron tube circuits and microwave technology; she was very active in research. She guided 20 Ph.D students, published over 100 research papers and seven books in microwave engineering and antennas. Her major contribution has been in the field of antennas, mainly for aircraft and spacecraft applications. For her contributions to microwaves, she received several awards and honors. These include the “Lord Mountbatten” prize for the best paper from the institute of electrical and radio engineering, (UK), the J.C Bose Memorial prize for the best research paper from the Institution of Engineers, and the “Ramlal Wadhwa Award” for the best research and teaching work from the institute of electronics and telecommunication engineers. She was also a fellow of several professional engineering societies. She retired as professor in 1982.

**Department of Electronics & Communication Engineering
REVA Institute of Technology & Management
Rukmini Knowledge Park
Kattigenahalli, Yelahanka, Bangalore – 560 064**

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