

SAVVICAM

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CAMPUS NEWS LETTER OF VITAM GROUP

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The Management of VITAM GROUP OF INSTITUTIONS wishes all the members of VITAM family a very cheerful and successful New Year and Makara Sankranti



Dr. K Raja Rajeswari, Director VITAM & VNIPS

A campus news letter is a window on the academic tides, co-curricular waves, extra-curricular pulses and creative impulses. A rich convergence of inspiration and ideas can be realized if it is properly nurtured. Wishing you a pleasurable reading of the news letter!

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From the Editor

Dear readers

Happy New Year! The New Year brought with it this news letter to the campus. This shall serve as a gateway to creative potential and arena for achievements of students and faculty. On a regular basis we will be meeting through these pages. We welcome suggestions, contributions and cooperation from the campus community to make this news letter a well designed attempt to deliver the campus reflections. We thank the campus community for their overwhelming response. Due to space constraint some of the contributions are left out of the issue. They will be published in the coming issues.

With regards,

T. Radhakrishna Murty, Editor

Best Physical Director Award to VITAM PD



Mr. N. Ramachandra Rao, Physical Director and NSS Officer, VITAM was awarded Best Physical Director Award by JNTU-K, Kakinada on 14th November 2013 for his service in the field of Physical Education and Sports for the year 2013-14. He received the award from Prof. G. Tulasi Ram Das, Vice Chancellor, JNTU-K. The Management, Director, Principal and other faculty members congratulated him on his achievement. Congratulations!

VNIPS faculty bags National level Prize

Ms. Pingali Sirisha, Asst. Professor in Pharmaceutical Science of VNIPS won 2nd Prize in National Level Essay Competition – 2013 organized by Pharmacists' Organization for Women Empowerment and Research (POWER), in association with Indian Pharmaceutical Congress (IPC). The theme of essay is "A Perspective on Herbal Medicines and Herbal Supplements". This competition is conducted exclusively for Women Pharmacists or students throughout India.

Prof. K. Raja Rajeswari, Director, and Dr. P. Uma Devi, Principal, VNIPS congratulated her on her achievement.



Prof. K. Raja Rajeswari joins VITAM Group

Prof. K. Raja Rajeswari, former Principal, AU CoE for Women and Retd. Professor of ECE, AU College of Engineering joined VITAM group of institutions as Director in September 2013. With her she brought rich research experience and vast academic expertise to VITAM.

Teachers' Day Celebrations

Teachers' Day was celebrated on 5th September 2013 in reverential remembrance of the birth day of the great teacher, Dr. S. Radhakrishnan. Prof. K. Raja Rajeswari, Director (Retd. Professor of ECE, Andhra University College of Engineering) was felicitated for her outstanding service in the field of technical education and research.

From the Director's Desk

- ❖ Prof. K. Raja Rajeswari, Director, attended IETE Symposium ARC NET (Advances in Radar Communications and Network Enabled Technology) conducted by A U and NSTL Visakhapatnam at NSTL on 6th and 7th September 2013. Prof. Raja Rajeswari, Chairman, IETE Technical Committee, Coordinator – South Zone and Member, IETE Governing Council, New Delhi spoke on the recent trends in RADAR and SONAR communication technologies.
- ❖ On 28th September 2013 Prof. K. Raja Rajeswari attended Annual Technical Convention of IETE at Mumbai. The theme of the Convention: "Growth of Technologies in Electronics, Computers & Telecom: Indian Perception"
- ❖ Two books of Prof. K Raja Rajeswari – Electronic Devices and Circuits (Pearson) and Signals and Systems (Prentice Hall) are prescribed as Text Books by Andhra University and as Reference books by JNTU-K, Kakinada. Another book by her, Electronic Circuit Analysis (Pearson) is prescribed as text book by JNTU-K as well as Andhra University.

N S S ZONE

- ❖ An awareness programme on TRAFFIC RULES was conducted at VITAM Seminar Hall for all NSS Volunteers on 9th October 2013. Mr. P. Surya Rao, Sub Inspector, Traffic, instructed the students to wear helmets compulsorily and observe traffic rules.
- ❖ A grand plantation programme was organized at the campus on 23rd November 2013. Saplings were planted by the volunteers. Prof. K. Raja Rajeswari, Director, other dignitaries and faculty members participated in the event.
- ❖ A rally was conducted on the occasion of World AIDS Day on 30th November 2013 at Anandapuram by the NSS Volunteers of VITAM.



Prof. K Raja Rajeswari published the following papers in Journals:

1. Adaboost based EMD as a filtering technique to mitigate ambient noise in SONAR Systems, IRACST – Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498, Vol.3, No.3, June 2013.
2. Adaboost based EMD as a de-noising technique in Time delay estimation application, International Journal of Computer Applications, Volume 78, No.12, Sept 2013.
3. Noisy reverberation suppression using Adaboost based EMD in underwater scenario has been accepted by International Journal of Oceanography, Hindawi Publishing Corporation. <http://www.hindawi.com/journals/ijocan/aip/>
4. Modeling of LFM Spectrum as Rectangle using Steepest Descent Method, IJCA, Vol. 69. No.16 pp-12045-8084
5. Graphical User Interface based Signal Generator for Radar/Sonar Pulse Compression Codes, International Journal of Computer Applications 82(16):15-19, November 2013. Published by Foundation of Computer Science, New York, USA.
6. Generation and Implementation of Barker and Nested Binary codes, IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), E-ISSN: 2278-1676, p-ISSN: 2320-3331, Volume 8, Issue 2 (Nov. - Dec. 2013), PP 33-41

Publications by Prof. K Raja Rajeswari in the Conferences during 2013:

1. Empirical Mode Decomposition as a de-noising technique with Adaboost based IMF selection, IETE 44th Mid-Term Symposium on ICT in Space, Defence and Industrial Applications" held at IETE, OU Campus, Hyderabad Centre on 21st & 22nd April 2013.
2. Reverberation Suppression using Adaboost based EMD in Noisy speech IETE National Conference on Advances in Radar, Communications and Network Enabled Technologies (ARCNET- 2013) held at NSTL (DRDO), Visakhapatnam on 6th & 7th September 2013. (Awarded best paper award)
3. Robust time delay estimation for noise corrupted sinusoidal signals has been accepted by International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT 2013), The Electronics Engineering Department, Aligarh Muslim University, Aligarh, 23rd to 25th November 2013 and will be available soon in IEEE Xplore. (best paper award)
4. Delay-Doppler Performance of Hyperbolic Frequency Modulation Waveforms, 7th IRAJ INTERNATIONAL CONFERENCE, November 2013, Chennai, India.
5. Implementation and Generation of Barker and Nested Barker codes ARCNET-2013, held at NSTL (DRDO), Visakhapatnam on 6th & 7th September 2013. (best paper award)

NATIONAL PHARMACY WEEK CELEBRATIONS - 2013



VNIPS celebrated NPW-2013 by organizing competitions in Essay writing, Elocution and Poster presentations. A rally was conducted in the streets of Anandapuram highlighting the role of pharmacist and health care in society.

Sri R. UDAY BHASKAR, Asst. Director, DCA, Hyderabad was the Chief Guest for the valedictory function held on Dec 3rd 2013. He exhorted the students to concentrate on concept and application rather than on mechanical pass percentages. Prof. K. Raja Rajeswari, Guest of Honor and Dr. P. Uma Devi, Principal, VNIPS, President of the function graced the occasion. Prizes and Certificates were awarded to the Winners of various competitions and academic toppers.

Faculty Development News

Papers published by

Prof. N.V.V.S. SURYANARAYANA, Asst. Principal, HoD, A S & H in 2013.

1. Existence of Multiple Positive Solutions for n th Order Two-Point Boundary Value Problems on Time Scales, *Advances in Pure Mathematics*, 2013, vol 3, pp. 70-77.
2. Upper and Lower Solutions for General Two-Point Boundary Value Problems on Time Scales, *Neural, Parallel and Scientific Computations*, 21 (2013) 31-42.
3. Heteroclinic Solutions of Fourth Order Φ – Laplacian Differential Equation on Whole Real Line (Accepted for Bulletin of International Mathematical Virtual Institute.)
4. Existence of Heteroclinic Solutions of Fourth Order Φ – Laplacian Dynamical Equations, *International Journal of Analysis and Applications*, Vol.3, No.1(2013), 47-52

Papers published by Prof. MLN Acharyulu, Prof. of Chemistry

1. Oxidimetric determination of Mycophenolic Acid in pure and Pharmaceutical Formulations *Acaij*, 12(9), 2013, (323-28) *ANALYTICAL CHEMISTRY* ISSN 0974-7419
2. NBS-METOL AS CHROMOGENIC REAGENT FOR THE DETERMINATION OF MYCOPHENOLIC ACID, Vol 8, No 2 (2013), p.1-9 *THE PHARMA RESEARCH*, ISSN:0975-8216
3. Determination of Adefovir and Strontium Ranelate using Methylene Blue as Chromogenic Reagent, *MS#JPBR-2012-1096*, *Int J Pharm Biomed Res* 2013, 4(1), 10-14 *International journal of pharmaceutical and biomedical Research* ISSN No: 0976-0350

Papers published and presented by Dr. K Vijaya Babu, Asst. Prof. of Physics

1. Synthesis and Structural characterization of Lithium Nickel Oxide at different temperatures, *AIP Conference Proceedings*, Volume 1512, Pages 1264-1265, 2013.
2. Improvement of Lithium-ion conductivity for A-site disordered Lithium Lanthanum Titanates by Nb^{5+}/V^{5+} substitution, *Research on Chemical Intermediates*, Volume 39, Issue 4, 2013.
3. Structural, elastic, electronic and optical properties of cubic perovskite $CsCaCl_3$ compound: an ab initio study, *Acta Physica Polonica A*, Accepted.
4. Ground state electronic and magnetic properties of $NdMnO_3$: A first principles study, "National seminar on Energy conservation - Energy Audit - Energy Efficiency", (15th-16th February, 2013) Departments of Physics, Commerce and Home Science of St. Theresa's (A) College for women, Eluru.
5. Influence of the substitution of La and Cr for Mn on the Electrochemical Properties of $LiMn_2O_4$ Cathode Material for Lithium-ion Battery", "National seminar on Energy conservation - Energy Audit - Energy Efficiency", (15th-16th February, 2013) Departments of Physics, Commerce and Home Science of St. Theresa's (A) College for women, Eluru.
6. Theoretical studies of structural and magnetic properties of cubic perovskite $NdAlO_3$, (27th-28th February 2013) "National seminar on Advanced Materials and their Applications", Department of Physics, Osmania University, Hyderabad.

Snippets from Pharma block

HARITHA KONDRAJU MEMORIAL AWARD

Ms. Pingali Sirisha, Asst. Professor, VNIPS has designed a project in association with VNIPS in the name of HARITHA KONDRAJU MEMORIAL AWARD to the Toppers in B.Pharm in the form of Merit Certificates and Cash Prizes worth Rs. 3,000. This will be continued every year through Mybo Educational and Charitable Trust.

PUBLIC HEALTH

VNIPS conducts health awareness camps every month. At the camp held at Mindivanipalem village in December 2013 students and faculty members educated the villagers on the issues of hygiene and health.

ON-LINE PHARMA QUIZ

A novel initiative had been taken up by VNIPS in association with Pharmainfo.Net, a USA based web portal by organizing an online Pharma Quiz for a week for 1st B.Pharm students. Top 3 winners were awarded with 8GB and 4GB pen drives.

Professor M.L.N.Acharyulu of AS&H Department participated in UGC sponsored National Level Conference on Green Technologies (in collaboration with Vizag Steel) on 8-9th November 2013 conducted at St. Joseph's College for Women (Autonomous) Visakhapatnam.

Club Cube

At DRUSHTI (Technical Hobby Club of students of Mechanical Engineering) Techno Quiz and paper presentations were conducted on 30th November 2013.

Hey! The future is robotic! The launch of VRC [VITAM ROBOTIC CLUB] rightly wets the appetite of all those tech wizards. It is started by II Mechanical Engineering students. An introductory seminar and demonstration lecture was organized for the Vitamians on 14th December 2013. In the second week of January 2014 a full-fledged workshop is planned. All enthusiasts! Stay tuned to the arrival of Robot.

Message from the Training & Placement Cell @ VITAM

I welcome all the students of Engineering of the campus to approach the Training & Placement Cell in their quest for the right job. For details regarding placement policy and Campus Recruitment Programme write to prakash.pyla@gmail.com or contact 7382595587.

P.J.V.G.PRAKASA RAO, Placement Officer

Turkey's New Undersea Tunnel Is Built to Resist Earthquakes

How engineers made a train tunnel that connects two continents



More than a million people a day are expected to be traveling between Europe and Asia in an underwaterrailway tunnel in Istanbul, Turkey. The total commute time between the two continents is scheduled to take about four minutes. The \$4.5 billion Marmaray tunnel runs 180 feet below sea level, officially connecting Europe and Asia, with the Bosphorus water way running just above it. Launched in 2004, the Marmaray rail has finally reached completion, with its opening coinciding

with the 90th anniversary of the Republic of Turkey.

When designing the tunnel, engineers had to take into account its proximity to the active North Anatolian Fault, which lies about 10 miles (16 kilometers) away. Activity along this 930-mile (1,500-kilometer) fault system resulted in a devastating 7.4 magnitude earthquake that struck Turkey in 1999, killing thousands of people. "The earthquake hazard really drove the design of the project," said Joseph Wartman, a Civil Engineering Professor at the University of Washington in Seattle. The real concern during an earthquake is a phenomenon known as liquefaction, which can temporarily soften the soil surrounding the tunnel, effectively turning that soil into a liquid, Wartman said. "The soil is no longer supporting the tunnel, it's trying to dislodge it, and it can actually cause tunnels to float up," he said. The Marmaray tunnel was constructed from 11 sections that were connected with joints.

Sourced by : **P. Sridhar**, Hod. Department CE



MIRTH CORNER

Collected by **Deepika Ammu**, II Civil Engg

☺ According to parents, every problem has only one solution... "Just throw away the phone and cut down the internet connection"

☺ When Mom wants to find out where I'm in the House, she simply Turns off the Wi-Fi ... Ooops! This trick always works...



NEWS FROM THE CYBER WORLD

VITAM is going to conduct National Network Security Championship-14 on 7 & 8th March in collaboration with Association for Computer Machinery-IIT Delhi and Network Bulls, Gurgaon. NNSC will be conducted across 60 zonal centers. Visit www.nnscindia.com

An inter-disciplinary workshop on the theme, Personality Development –the Right step for bright future, was conducted at the Dept. of CSE on 14th and 15th June 2013 under the umbrella of Cynet. Dr. D. Naveen Kumar and Mr. NV Chari of Viswanadha Business School and Mr. PJVG Prakasa Rao and Mrs. B Renuka of CSE Dept. were the resource persons.

A National Level Workshop on J2ME and ANDROID was conducted on 11th and 12th July 2013 for the students of CSE at the VITAM campus. Mr. HARI, VIEW, Mr. SRINADH, IT expert and Mr. KODANDARAM, IT expert conducted theoretical and live demonstrations of Android applications.

Telugu Poster On Patient Guidelines

VNIPS released a Poster in Telugu on GUIDELINES to PATIENTS to be displayed in all Medical Shops of Visakhapatnam in association with Drugs Control Department.

ఆరోగ్యం లాభం...? మందులు వాడుతున్నారా...? మీ ఖర్చుపైనే బట్టడం తలచుకోండి..!

మందులు వాడటానికి పద్ధతులు :

- ✓ వైద్యుని సలహామేరకు మాత్రమే మందులు వాడాలి.
- ✓ ఊరు నిలిచి మాత్రమే మందులు వేసుకోవాలి.
- ✓ మందులు ఏ సమయంలో వేసుకోవాలి అర్థం చేసుకొని క్రమ పద్ధతిలో వాడండి.
- ✓ మందులు వాడకం వలన శరీరంలో అనుకోని మార్పులు సంభవించినట్లైతే వెంటనే వైద్యుని సంప్రదించండి.
- ✓ మందుల చీరీలను మందుల కుక్క వారాలలో వైద్యుని అనుమతి తప్పకుండా.

మందులు వాడకూడని పద్ధతులు :

- ✗ అతివ్యధి పానియాలతో, కాఫీ, పాలు మొదలగు వాటితో మందులు వేసుకోవాలి.
- ✗ మందులన్నింటినీ ఒకేసారి తీసుకోవాలి.
- ✗ యాంటిబయోటిక్స్ ని నిర్ణయించిన వాడకూడదు.
- ✗ వాడకం తగిన తేదీ (Expiry Date) మందులు వాడకవద్దు.
- ✗ సోషల్ మెడికల్ మందులు అతిగా వాడటం వలన కాలక్రమంగా శరీరంలోని ముఖ్య అవయవాలు క్షయించుకుని, మాత్రసాధనాలు మొదలగునవి సహజంగా వ్యాధి కీర్తక పెరుగుతుంది.
- ✗ మందులు క్రమ పద్ధతిలో తీసుకోకపోతే, అవసరం వచ్చినప్పుడు డోజును తగ్గించాలి.
- ✗ పానక వైద్యం అరోగ్యునికి చేటు.

Health is Wealth

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☺ 1999 Kids: I want my bed near Window to see the moon & stars. 2013 Kids : I want my bed near the mobile charging slot.