



JNTUA NEWS LETTER

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FOURTH CONVOCATION OF JNTUA

The fourth Convocation of JNTUA was conducted on 27th December 2012 at the University Administrative block with gaiety and fervour. All the University officials and other staff have actively participated in the Convocation and there was festive atmosphere in the campus. The function was colourful with the venue decked with floral decoration. On behalf of Chancellor of University and the Governor of Andhra Pradesh, His Excellency Shri. E.S.L.Narasimhan, the Vice Chancellor of the University Prof. K.Lal Kishore has conducted the Proceedings of the convocation. Dr. Prahlada, Vice Chancellor, Defence Institute of Advanced Technology, Pune was the Chief Guest and he was conferred with Doctor of Science (Honoris Causa) Degree.

In the Vice Chancellor's report presented by him, Prof.K.Lal Kishore has mentioned about important achievements and developments of the University during 2011-12. He informed that a total number of 80042 students were admitted into the university in various UG and PG programmes during the Academic Year 2011-12. It was also reported that new Boards of Studies were constituted to frame the syllabus of M.Tech. and M.Pharm., courses. Prof.K.Lal Kishore has stressed the need for Research and Development in ensuring higher quality of education. The honorable Vice Chancellor was happy to announce that the University proposes to establish research centers in affiliated colleges. In his report, he touched upon various achievements of the University staff like Awards, Paper Publications, Visits Abroad and Research Projects undertaken. The report also focussed on the extracurricular activities of the University students like NCC activities, NSS Programmes and Sports and Games.

While mentioning about the examination reforms, he stated that University has successfully implemented jumbling system for P.G. examinations for the first time and Advanced supplementary Examinations for Pharma. D. have been introduced. To cater to the needs of students of constituent as well as affiliated colleges visiting the University for various purposes, a Student helpline centre is recently established.



Vice Chancellor Giving his Report



Conferring Honoris Causa on Dr.K.Prahlada

NEWS LETTER COMMITTEE

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Dr. M.L.S. Deva Kumar, Co-ordinator
Mr.M. Rama Sekhara Reddy, PRO

In the convocation, the Honorable Vice Chancellor has awarded 50 Ph.D. Degrees to the successful research scholars and the toppers of various branches of Engineering were awarded Gold Medals and Certificates of Merit during the Convocation. The number of students who applied for degrees in absentia was 13,942 for under graduate courses and 1,844 for post graduate courses.



Award of Gold Medals and Certificates of Merit



Honourable VC awarding Ph.D. Degrees

The Chief Guest, Dr. K.Prahlada, in his Convocation Address, emphasized the need for innovative research in the area of Technology to meet the challenges faced by the country. He urged the young technocrats to apply the state of the art technology to find answers to the problems of the Nation such as safe drinking water supply, sanitation, clean and efficient transportation, affordable health care etc. In his valuable message, he urged the Universities to take up Fundamental Research and Applied Research and to adopt clustered approach in pursuing research. He mentioned in his address that there are many latest technologies available like Bio-energy, Instrumentation, MEMS Devices, Nano Technology ,Cyber Security. Cryptology, Green Energy Technologies etc each University can identify the area suitable for pursuing research. He stresses the need for social responsibility as a fundamental objective of research.



Chief Guest,Dr.K.Prahlada, Delivering the Convocation Address

AWARDS AND HONOURS RECEIVED

Prof.K.Lal Kishore Receives U.P. Government National Award

The Vice Chancellor of JNTUA, Prof. K. Lal Kishore has received the prestigious award “U.P. Government National Award for Outstanding Work Done in Specified Areas of Engineering and Technology for the year 2012” from ISTE in New Delhi on 20th December, 2012. The JNTUA family extends its hearty congratulations to Prof. K. Lal Kishore and feels proud of his achievement.



Prof. K. Lal Kishore receiving the Prestigious Award

Prof. K. Lal Kishore Elected Fellow of AP Akademi of Sciences

The honourable VC of JNTUA, Prof. K. Lal Kishore has been elected as a **FELLOW** of Andhra Pradesh Akademi of Sciences on 24th December, 2012 in recognition of his contributions to Science and Technology. The JNTUA fraternity feels honoured and proud for his achievement and wishes him many more such honours in future.

Publications in Journals by the Faculty

- D. Ravi Kumar, V. Sankar published a paper titled “**Optimal Allocation for Reliability analysis of Series Parallel system using Dynamic Programming**” in International Journal of Mechanical and Industrial Engineering, Oct-2012.
- Suresh Renuka Das. H, Subhash Kulkarni and K. S. R. Anjaneyulu published a paper titled “**Modeling and Simulation of Wireless Networks for handover probabilities**” in International Journal of Multidisp. Research & Advcs. In Engg., Oct-2012.
- R. Hanuma Naik, Dr. D. V. Ashok kumar and Dr. K. S. R. Anjaneyulu published a paper titled “**Controller for Multivariable Processes based on Interaction Approach**” in International Journal of Applied Engineering Research, Oct-2012.
- Smt. G. Mamatha, Smt. V. Sumalatha, M. V. Lakshmaiah and Prasanna Raj. P published a paper titled “**FPGA Implementation of High Speed Area Efficient Lifting Scheme Based on DWT Architecture for Image Fusion**” in European Journal of Scientific Research, Nov, 2012.
- S. Anvesh and P. Ramana Reddy published a paper titled “**Optimized Design of an Alu Block Using Power Gating Technique**” in Journal of Electronics and Communication Engineering (IOSR-JECE), Nov- Dec, 2012.

- C.Sudarshan Babu and P.Ramana Reddy published a paper titled “**Implementation of 256-bit High Speed and Area Efficient Carry Select Adder**” in International Journal of Electronics & Communication Technology, Vol. 3, Issue 4, Oct - Dec 2012.
- M.Ashok Kumar, Dr.Sudhir Bodduluri, Sanyukta Kesharwani published a book titled “**Enterprise Resource Planning**”, by “Paramount Publishing House”, 2012 (ISBN No. 9789382163367)
- Dr. R. Padmasuvarna and M. Vijaya Bhaskar published a paper on “**Multi-phase Sequence Detection System using Microcontroller**” in International Journal of Applied Physics, Volume 2, Number 3, Oct-Dec 2012.
- Dr. B. Eswara Reddy et al., published a paper titled “**Speeding up the Kernel K-means Clustering Method: A Prototype based hybrid approach**”, Pattern Recognition Letters, Elsevier, Accepted on Nov 14, 2012.

Changes in Administration

The following changes have taken place in the administrative set up of JNTUA and its Constituent Units:

- Dr.V. Sumalatha, Associate Professor in ECE is appointed as Co-ordinator, in the Office of the Director, Academic & Planning, JNTUA.
- Dr. C. Shobha Bindu, Associate Professor in CSE is appointed as Head of CSE Department, JNTUA College of Engineering, Anantapur.
- Dr. M. Yohan, Associate Professor in Mechanical Engineering is appointed as Head of Mechanical Engineering Department, JNTUA College of Engineering, Anantapur.
- Mrs. P.Sujatha, Associate Professor in EEE is appointed as Head of EEE Department, JNTUA College of Engineering, Anantapur.
- Mr.M. Ramasekhara Reddy, Assistant Professor in EEE is transferred from JNTUA College of Engineering, Pulivendula and appointed as Public Relations Officer, JNTUA.
- N. Ravi Kumar, working as Junior Assistant in JNTUA College of Engineering, Anantapur is promoted as Senior Assistant and posted to JNTUCEA, Pulivendula.
- A. Dhanunjaya, working as Senior Assistant in JNTUA College of Engineering, Anantapur is promoted as Superintendent and posted to JNTUACEA, Pulivendula.

SEMINARS / SYMPOSIA / CONFERENCES AND WORK SHOPS ORGANISED

Career Counselling Program On Best Placement Practices

The Directorate of Industrial Relations and Placements has conducted a one day work shop on “**Best Placement Practices**” for all Training and Placement Officers of MBA Colleges of Constituent and Affiliated Colleges of the University, on 16th October 2012 in the Seminar Hall of Department of Chemical Engineering, JNTUA College of Engineering, Anantapur. The Coordinator of the workshop was Prof. A. Ananda Rao, Director, Industrial Relations and Placements, JNTUA.



Prof.A.Ananda Rao Welcoming the Guests



Lecture in Progress

The Workshop was sponsored by M/s Smart Steps Consulting Pvt. Ltd., Hyderabad. Mrs. Haritha, Mr. Raghu and Mr. Lavana Kumar (Smart Steps Team, Hyderabad) have delivered the lectures about best placement practices. A total of 80 Training and Placement Officers have participated in the program. Prof. K. Lal Kishore, Hon'ble Vice-Chancellor of the University was the Chief Guest for the inaugural function. Prof. H. Sudarasan Rao, Rector of the University was the Chief Guest for the valedictory function.

“PIXEL- 2K12”

Department of CSE, JNTUA College of Engineering, Anantapur has organized a two day national level symposium “PIXEL- 2K12” on December 28-29, 2012. The Program Coordinators are Dr. A.P. Siva Kumar, Assistant Professor and Smt. B. Lalitha, Assistant Professor. The convener of the Program was Dr. C. Shoba Bindu, Associate Professor & Head of CSE, JNTUACEA. The Honourable Vice Chancellor, Prof.K.Lal Kishore was the Chief Guest at the inaugural function of the Program.



Inaugural Function of PIXEL 2K12

Faculty Who attended Workshops/Conferences

- Aruna Mastani and K.Sujith Kumar presented a paper on “**Simplified Radix-8 Booth Encoded Modulo Multiplier using RNS**” at National Conference on “Computing & Intelligence Systems”, on 12th & 13th Oct,2012,DG Vaishnavi College of Engineering, Chennai
- Dr.B.Eswara Reddy acted as program chair for the conference and acted as editor for the proceedings of **International conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT-2012)** conducted at SRIT affiliated to JNTUA Anantapur during December 21-23, 2012.
- G. Surendra, P. Srinivasa Varma and V. Sankar presented a paper on ” **Evaluation of Optimal Number of Substation Spare Transformers by using Probabilistic Methodologies**” in National Conference on Power Distribution on 8th & 9th Nov-2012 at CPRI, Bangalore.
- R. Suneetha, P. Sujatha and K. S. R. Anjaneyulu presented a paper on ” **Optimal Tuning rules for PID and Fractional order PID Controllers with time delay processes based on Genetic Algorithm**” in International Conference on Emerging Trends in Electrical, Communication and Information Technologies on 22nd & 23rd Dec-2012 at Srinivasa Ramanujan inst. of Technology, Anantapur.
- B.Sunitha and K.Sri Latha, Faculty in the Dept of Management, JNTUA presented a paper on “**Training and Development in Banking Sector**” National Conference on “Financial Services, Opportunities & Challenges in Indian Perspective(FINSER 2012)”, on 12th & 13th Dec, 2012, at Acharya Institute of Graduate studies, Bangalore.

Orientation Program for 2012 Batch MBA students

The Department Of Management organized the Orientation Program for 2012 Batch MBA students on 6th Nov, 2012. Prof. K.Hemachandra Reddy Registrar, JNTUA, Anantapur delivered Orientation address, Dr.M.L.S.Deva Kumar, Office I/c of MBA presided over the function.



Dr.M.L.S.Deva Kumar, Officer i/c, Dept. Of Management, welcoming the MBA freshers



Address by Prof.K.Hemachandra Reddy, Registrar JNTUA

Entrepreneurship Development Awareness Program

An Entrepreneurship Development Awareness Program on “Schemes of APSFC - Procedures of Lending Projects” was organized by EDP Cell, Dept of Management on 11/12/2012. Sri A. Ashok Nanda, Sr. Branch Manager, APSFC, Anantapur delivered a keynote speech. Prof. K.Hemachandra Reddy, Registrar graced the occasion. Dr.M.L.S.Deva Kumar Officer Incharge of MBA & Co-ordinator EDP Cell, Department of Management, JNTUA presided over the function.



Dr. K. Hemachandra Reddy, Registrar and Dr.M.L.S.Deva Kumar presenting memento to Mr. A Ashok Nanda

"WELCOME FEST-2012"

JAMSA (JNTU Anantapur Management students’ Association), Department Of Management has organized "WELCOME FEST-2012" to welcome the 2012 batch MBA students on 12/12/12 . The Chief Guest on the occasion was Prof. H.Sudarsana Rao, Rector and Prof. V.Sankar, Director, Academic and Planning has graced the occasion. Dr.M.L.S.Deva Kumar, Officer i/c of MBA presided over the function. Students have organized various events on the occasion.



Dr.M.L.S.Deva Kumar Office I/c of Dept of Management During Welcome Address



Cake cutting on 12/12/12 at 12:12:12 by Prof.H.SudarsanRao, Rector JNTUA

“J.N.T.U.A. – STRATADIGM Bridge Course On Banking and Financial Services”

The Department of Management has coordinated a Job Oriented Bridge course “JNTUA – STRATADIGM Bridge Course On Banking and Financial Services” for the students of Department of Management. The course is sponsored by University Grants Commission Grants under Career Guidance & Counseling programs. Stratadigm Education and Training Ltd., which is an approved training institution by

Andhra Pradesh State Council of Higher Education, Govt. of Andhra Pradesh was the training partner. At the end of this training program, DUETSCHER BANK one of the best Investment Bank belonging to Germany, has conducted campus interviews for students and 10 students got selected. Honourable V.C Prof.K Lal Kishore distributed the offer letters and participation certificates to the students



Inaugural Function



Hon'ble V.C Prof.K Lal Kishore distributing Deutsche Bank's offer letters to students

AIDS Day

NSS Unit, Dept of Management has organized AIDS Day & Blood Grouping and Blood Donation Awareness program on Dec 1st, 2012. Prof K.Hemachandra Reddy Registrar, JNTUA presided over the function, Sri Tarimala Amarnath Reddy, Convener of MANAVATHA, delivered keynote speech. Dr.M.L.S.Deva Kumar, Office i/c of MBA & NSS Program Officer, Department Of Management has organised the event.



Prof.Hemachandra Reddy Registrar JNTUA presenting memento to Tarimala Amarnath Reddy convener of Manavatha, Dr.M.L.S.Deva Kumar NSS Program Officer on the dais.

Programs attended by students

- T. Shanthi Priyanka (10001A0224) and P. Sowjanya (10001A0236) of III B. Tech (EEE) presented a paper on "Space based Solar Power" in MGIT, Hyderabad in Oct, 2012

- G. Raja Sekhar Reddy (10001A0227) and L. Ushsa Kiran Reddy (10001A0235) of III B. Tech (EEE) presented a paper on “Solar-Wind Hybrid Energy” in JNTUA College of Engineering, Pulivendula, YSR District during 19-20, December, 2012 and got the 1st prize for their presentation.
- V. Dasaratha Ramudu (11001A0222) and P. Geetha Krishna (11001A0201) of II B. Tech (EEE) presented a paper on “Permanent Magnet Motor less Electricity Generator” in JNTUA College of Engineering, Pulivendula, YSR Dist on 19-20, December, 2012. And got the 2nd prize for there presentation.
- R. Chakradhar of III B. Tech – EEE participated in University level Cricket Tournament during 18-24, December, 2012 at Ananta Lakshmi Engineering College, Anantapur.



PROFILE OF A GREAT SCIENTIST

MICHAEL FARADAY – FATHER OF ELECTROMAGNETIC THEORY

Michael Faraday, (22 September 1791 – 25 August 1867) was an English scientist who contributed to the fields of electromagnetism and electrochemistry. His main discoveries include those of electromagnetic induction, diamagnetism and electrolysis. Although Faraday received little formal education he was one of the most influential scientists in history, and historians of science refer to him as having been the best experimentalist in the history of science. It was by his research on the magnetic field around a conductor carrying a direct current that Faraday established the basis for the concept of the electromagnetic field in physics. Faraday also established

that magnetism could affect rays of light and that there was an underlying relationship between the two phenomena He similarly discovered the principle of electromagnetic induction, diamagnetism, and the laws of electrolysis. His inventions of electromagnetic rotary devices formed the foundation of electric motor technology, and it was largely due to his efforts that electricity became practical for use in technology.

Faraday was an excellent experimentalist who conveyed his ideas in clear and simple language; his mathematical abilities, however, did not extend as far as trigonometry or any but the simplest algebra. James Clerk Maxwell took the work of Faraday and others, and summarized it in a set of equations that is accepted as the basis of all modern theories of electromagnetic phenomena. On Faraday's uses of the lines of force, Maxwell wrote that they show Faraday " to have been in reality a mathematician of a very high order – one from whom the mathematicians of the future may derive valuable and fertile methods." The SI unit of capacitance, the farad, is named in his honour.

Albert Einstein kept a picture of Faraday on his study wall, alongside pictures of Isaac Newton and James Clerk Maxwell. Physicist Ernest Rutherford stated; "When we consider the magnitude and extent of his discoveries and their influence on the progress of science and of industry, there is no honour too great to pay to the memory of Faraday, one of the greatest scientific discoverers of all time".

Without Michael Faraday, the field of Electrical Engineering would not have been where it is today.



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