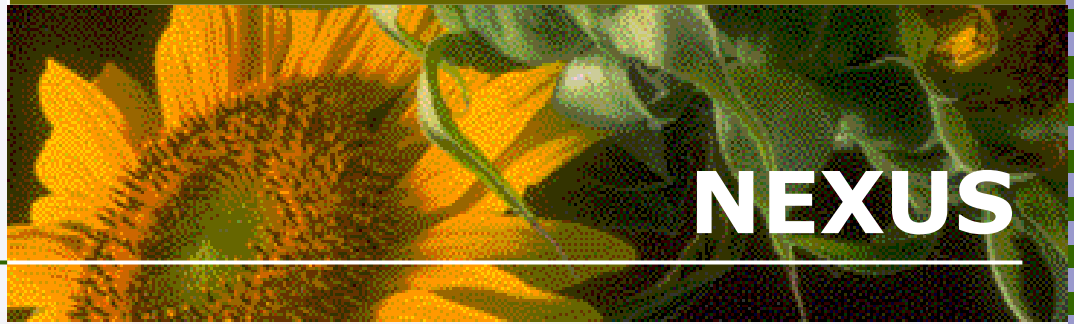


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NEXUS



WORDS FROM HEAD OF DEPARTMENT

With a pristine purpose of presenting all that transpired in a marked period of time, our bimonthly newsletter “NEXUS” is brought forth to help our readers to embark upon the bandwagon of informative, educative and creative impulses. The month of October was very vibrant in the department in terms of both educational and extracurricular activities. With the technical fest ‘ADH-ARVA’ coming in between the semester it gave an opportunity to all our students to highlight and explore their talents in the technical field. I would like to thank the management, all the staff members and both the B.Tech and M.Tech students for all the help and hard work that has made this Tech fest one of the best that the college has ever seen. I hope that this edition would serve as a verdant landscape of scientific, technical and literary outpourings that support teaching and research for the purpose of exposure and expansion. I dedicate this issue of “NEXUS” to all aficionados of good work.



Mrs.ROSHINI T.V
HOD ECE

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Editorial

To reach the great height a person needs to have great depth

Dear Readers, The memories of the past keep up our confidence and the hope of the future is what we live for, but the present is the one that keeps our essence alive. This is what the VJECians believe in-living in the present with a penchant for excellence in every sphere of activity with confidence and vision of the future. We are extremely glad to bring forth to you the 6th volume of News-letter “NEXUS” of Department of Electronics & Communication. The 6th volume of NEXUS brings forth a spectrum of multifarious activities in the Electronics & Communication Engineering department.

Mr.AdarshK.S (Staff Editor)

ADHARVA 2K13

Electronics & Communication Department Technical Fest 2013

ADHARVA 2K13 ,Technical Fest was hosted by Electronics & Communication Department on 10th October 2013 at the Electronics & Communication Departmental Block of Vimal Jyothi Engg College, Chemperi. Fr Geo Pulikal, Chairman of Vimal Jyothi Engg College, Chemperi inaugurated the fest by ribbon-cutting the Exhibition Hall. Dr. Benny Joseph, Principal of Vimal Jyothi Engg College, Chemperi was accompanied by Fr. Jinu Vadakkemulanjanal, Adminstator of Vimal Jyothi Engg College, Chemperi were our valuable dignitaries. Mrs. Roshini TV, HOD of Electronics &



Communication Department felicitated the gathering. Mr. Manoj K.C, Staff Coordinator of Adharva 2K13, delivered the vote of thanks. The main events of Adharva 2K13 were Aavishkar and Pixels. The event conducted with a technical focus comprised of competitions such as 'NAVIGATOR', 'PROJECT-X', 'MIND SPARK', 'SPECTRA' & 'TECHWIZ' in parallel venues of the college. Robotic events such as 'CIRCUIT RACE' were also held as a competition.

The event kicked off at 9:00am with the ribbon cutting ceremony. The main events of Adharva 2K13 is 'AAVISHKAR' - exhibition, which was participated by almost 52 students and it also consisted of a 'MOBILE EXPO' & 'GAMMING' area. 'PIXELS' - a video show which visualized a life time of an eagle and the latest development in technology. The day dawned with a technical quiz – 'TECHWIZ' which was an open to all event participated by students of other branches.





NATIONAL WORKSHOP ON ANTENNA DESIGN USING HFSS

The Electronics and Communication department of vimal jyothi was conducted a two day national work shop on antenna design on 7th and 8th November 2013. The workshop was based on the antenna design using HFSS and its application.. The program was inaugurated by the honourable principal Dr. Benny Joseph and Fr. Geo Pulikal Chairman of VJCE.. The class was handled by the experts of this field, Mr. Raja A (Innovent engineering solutions pvt ltd, banglore) and Mr. Manoj K C (Assistant professor , VJEC).

64 participants from different states attended the workshop. The workshop focused on application of advanced artificial material to antenna design and creating foundation for further implementation of communication devices using HFSS software. It also covered various aspects of coupler, filter and impedance matching techniques used in wireless communication.



INTRODUCTION TO WEB PAGE DESIGNING

Hyper Text Markup Language (HTML) is the main markup language for creating web pages and other information that can be displayed in a web browser. An informative session by the resource person Mr. Jilson Jose, Assistant Professor, CSED, VJEC was held on 12th September at the Microprocessor Lab of Electronics & Communication Department.

The class was held on the basic usage of HTML and its scope in future. The topics dealt with were on creating an HTML page, how to change the background colour of a webpage, to insert a table with contents, to increase the size of the table and to change the resolution of the background images. Other than the theoretical class a practical class was taken based on the above given topics. The session was really effective that by the end of the session we were experts in webpage designing using HTML.

HAL INDUSTRIAL VISIT

Students from S3 ECE had their industrial visit to HAL, Kasargod on 27th September 2013. They could familiarize themselves to the various technology and strategic electronic components and its making. The main products from HAL 'Strategic electronics factory' are computers that are used in aero planes and fighter jets. Besides India the customers of these computers include foreign countries like Russia, France etc. The PCB and processors are installed into chassis and after that these computers are subjected to different test processes for checking its workability in various environments. Different simulators which are able to produce vibrations, sudden temperature changes, high temperature up to 180°C and low temperature up to -70°C are used for this testing process. The engineers make sure that computers work in these drastic conditions.



KINFRA Park consists of many small industries like granite cutting, plastic bag making, floor tiles production etc. Big cutters of diameter about 1m are used for cutting granite rocks. These are then polished and used for flooring. Polyethylene is used in making plastic bags. The granule form chemical is heated and made into thin plastic films and then plastic bags are made.

ISRO INDUSTRIAL VISIT

-Jeena Francis S7 ECE

In this technology driven era, knowledge is not just about studying the theoretical aspects, but also understanding the things by seeing it. Industrial visit aims to achieve this. We the students of s7 ECE of Vimal Jyothi Engineering College conducted an Industrial Visit on 1st November 2013 at ISRO Trivandrum. At 10.30am we entered in the museum. At the entrance itself we got the history about its foundation. From there we entered into a new world of different types of satellite models and their parts. At first we see the PSLV section and then the GSLV section. Along with the guide our staff also explained a lot about the satellites. Then we stepped to a video show which clearly shows the different stages in the launch of a satellite. It was really a good experience to all. The next section was about the applications of satellites. There we saw schematic representation of various applications which include communication, medical, military, rescue etc.. Industrial visit was really an experience for us and we got many information about satellite and its launching process.