

NEXUS

THE ECE DEPARTMENT NEWSLETTER

SEPTEMBER 2013

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MISSION

To empower emerging engineers with state of art technology along with high pattern of discipline, nurture career improvement and develop human and social intellectual qualities necessary for the successful practice of the profession.

VISION

Lead the students in the Quest for attaining excellence in the ever evolving technical trends in the field of Electronics and Communication.

MATLAB TRAINING	ELECTROBASE
ARDUINO WORKSHOP	INDUSTRIAL VISIT
TEACHER'S DAY CELEBRATION	ELECTROBITZ

WORDS FROM HEAD OF THE DEPARTMENT

It's my pleasure to introduce the department news letter NEXUS for the month of September 2013. To begin with, I would like to congratulate the members of this newsletter for having taken much effort in bringing out excellent articles and organizing it in a systematic manner.



Glad news for our department for this month is that we started our new M.Tech course "Communication and Signal Processing ".I heartedly welcomes our newly joined staff members Mr.Jubin ,Ms.Grace & Ms.Harsha and M.Tech students to our Department and I wish all success in their future endeavors. University results declared for first and second semester have been good and have shown a rising trend due to untiring efforts of our faculty. The present edition of the newsletter reflects the awareness, achievements, aspirations and intellectual enthusiasm of the students. I invite all the readers of this news letter to share this with your friends and contribute more items for forthcoming News-Letter.

Mrs. Roshini T.V
HOD, ECE Dept.

EDITORIAL

A Technical Institution is not only a platform for the students to gain academic knowledge but also shape them to be ready to face a tough and competitive world which they will be exposed to, after leaving gates of the institution.

We are extremely glad to bring forth to you the 5th issue of newsletter "NEXUS" of Department of Electronics and Communication Engineering. I feel extremely delighted to put in record through the columns of the newsletter that the members of the student Editorial Board have done commendable job to bring out this volume in the present form.

The NEXUS brings forth a spectrum of multifarious activities in the electronics and communication engineering department.

This issue covers the news from July 2013 to Sept 2013

We express our gratitude towards our principal Dr.Benny Joseph and our Head of the Department Mrs.Roshini T V for their constant support and encouragement .

HAPPY READING

Mr. Adarsh K. S.
Staff Editor

Dear friends ,

The Electronics and Communication department of our college now providing a new way of learning for us. As the river flows back to back we are strive to follow our seniors.

We are very proud to present this issue of Nexus to you. It was a little bit risky task for us to bring this to you at on time. But our team work together made it a reality. I am very thankful to all my colleagues and my beloved teachers. The articles that we present include recently held events ,our achievements & future plans. Lastly I thank the almighty for helping us in all our difficulties and given us the opportunity, courage and streangth to publish this news letter and pray for His continuous blessings.

Mr.Melbin TL
Student Editor

Farewell To Msgr.Mathew M Chalil



TEACHER'S DAY CELEBRATED



Special programs were conducted on TEACHER'S DAY by S7 ECE students on 6th September .The program became a great success with the presence of 11 teachers and 4 lab assistants. Mr.Sibin John welcomed the gathering. Flowers were given to the teachers as a token of love and gratitude towards them. Few programs

conducted by the students of S7 ECE to enlighten the function. Ms.Roshini T.V, HOD of ECE department, Mr.Manoj, Asst.professor, Ms.Lakshmy, Asst.-professor, and Ms.Sini, lab assistant gave messages and appreciated the respect and love of students towards them. Vote of thanks given by Rani Maria, class representative of s7 ECE.

ELECTROBITZ



ELECTROBITZ, The Electronics and Communication Engineering Department organized an event in association with 'EAGLES' on 21st August 2013. Mr. Melvin Mathew, of S7 ECE welcomed the gathering. Ms. Shahin Thomas, of S7 ECE, explained the rules and regulations of the competition. This event was conducted exclusively for S3 ECE students. There were 7 teams with 2 members each. The competition kick started at 4:15pm at ECE lab. The first round was the circuit designing round. The competition was a total of 45minutes which also consisted a second round of quiz questions. The judging panel was Mr. Adarsh K.S, Mr. Vinod J. Thomas, Mr.Binil Kumar, and Mr.Jubin Sebastian .Mr.Jeril Jose and Ms.Shahin Thomas were the coordinators of this evening program.Mr.Adarsh K.S Asst.prof.ECED was the staff coordinator.

WELCOME



GRACE JOHN



JUBIN SEBASTIAN



HARSHA THOMAS

ARDUINO WORKSHOP

A workshop on Arduino Microcontroller was held on 6-09-2013 at CAD CAM Lab. The program was coordinated by the EC department and the faculties. The function was inaugurated by Mrs. Roshini T.V, HOD of the EC department. The class was taken by Asst. Prof. of ME Dept Mr. Sunil Paul.

The program was a new experience for all students of S3 EC. It was started at 9AM and lasted till 4PM.

The program was concluded by the vote of thanks given by Mr. Adarsh, staff in charge and a memento was presented to Mr. Sunil



Paul. Class representative Jeeshma K George expressed the sincere gratitude from the side of students.

PTA MEETING FOR S3&S5

PTA meeting was conducted on July 20 2013 at Bishop Valloppilly hall. The program started at 10:30 am sharp and ended at 2:30 pm. It was inaugurated by Mr. Raju Kuriakose, HOD Mechanical Engineering department on behalf of Principal, Dr. Benny Joseph. The aim of the program was to evaluate the performance of students in their first series examination and top 3 students were given away prizes. Fr. Jinu introduced the official website of VJEC cum TCS ion to parents. Vote of thanks was given by Roshini T.V, HOD of EC department. Finally an interactive session was held between parents and management on general problems and remedies.

ELECTROBASE



ELECTROBASE, A Technical quiz competition based on basic electronics was conducted on 30th august 2013 at 12 pm in S7 ECE. The program was conducted under the banner of IETE Student Branch vjec. Mr.manoj K.C Asst.Professor ECED was the staff co-ordinator; Mr.Sibin John & Ms.Ramya Ravi were the student co-ordinators.Mr.Sibin John welcomed the gathering. All the teachers from ECE department were present during the competition. The participants included the students of S3 & S5 ECE.There were 16 teams and each team had 2 members. There were 3 rounds in this competition. After the 1st round top 5 teams were selected and preceded to the 2nd and 3rdround. The 1st position bagged by Mr. Joseph Mathew & Mr.Akhil James from S5 ECE, 2nd position by Ms.Metilda Thomas & Ms.Sneha Thomas from S5 ECE, 3rd position by Mr.Sreejith & Mr.Sajeer from S3 ECE.Vote of thanks was given by Ms.Reshma John from S7 ECE.The other student volunteers from S7 ECE were Mr.Tomlin Mathew, Ms.sherin Sibi, Ms.Tintu Cherian, Ms.Nijila K.S and Ms.Josmi Jose.

S5-INDUSTRIAL VISIT

The fifth semester students of ECE Vimal Jyothi Engineering College conducted a visit to BSNL Kannur on 29th august 2013 as a part of their studies. The students were divided into 4 groups for the convenience of visiting. 4 units of the exchange mainly are switching room, power plant, MDF&MSC.Switch room is the execution unit of exchange. The major equipment used in the unit is OCB283, which is an imported German made auto-machine. It consists of e-cards with colored LED blinks, where each e-card could connect 16 subscribe lines. The analog signal from the subscriber is digitally manipulated inside the card and the required analog signal is sent back to the destination

The second unit was MSC, a unit which mainly deals with call processing, its switching and routing. The staff explained about the detailed working of GSM communication. When the subscriber deals a call, the signal is first send to BSC from where it is send to tanscoder and then to MSC.



The MSC which divides where the signal has to be forwarded. The 3rd unit that we visited was MDF, the main distribution frame. The unit has mainly two sections, the front section for the exchange unit and the rear section for the subscriber units. The unit has several numbers of pillars, each with number of tabs. Each capable of handling 100 subscribers and exchange lines. The last unit that we visited was the power plant unit. The main exchange works on -50v dc. The 230v ac supply from KSEB is converted to -50v dc using rectifier circuits. In the case of power failure, a number of dc batteries each with a voltage of 2v connected in parallel giving a total of -50v are used. Here the anode is grounded to prevent corrosion. Being communication students, this industrial visit was a very informative and useful section for us.

MATLAB TRAINING

A Matlab training section was conducted for S5 EC students. The inauguration ceremony was started at 9.30am, by seeking the blessings of God. The ceremony was inaugurated by Principal Dr. Benny Joseph. Roshini T.V HOD of EC dept delivered the welcome speech. Fr. Jinu administrator, vjec delivered the felicitation. The special guest of the day was Mr. Srinivas, an expert from Solipap Company. Training section made us aware of vast possibilities in the field and significance. MATLAB as the name suggest standing for matrix lab. It is a matrix based powerful software package



for scientific and engineering numerical computation and visualization. It also provides an interactive environment with thousands of built in function for technical computation, graphics and animation.



In addition to it , user can create his own function.

MATLAB offers several optional toolboxes, such as signal processing, control system etc. it is a command driven software and has on line help facilities. Some of the important commands in MATLAB are help, demo, who, clear etc. the section was ended by 4.10 pm

PLACEMENT TRAINING

Placement training classes were conducted on 17th and 18th of July for S3 and s5 of EC department. The training sessions were handled by trainees from Insight job guru. On 17th the morning session was handled by Mr. John. He gave an opportunity to enhance the aptitude skills in students. Afternoon there was a class on team work which was taken by Mr. Ajith. On July 18th there was a session on soft skills by Mr. Bonny Kannoth and afternoon the continuation of aptitude test handled by Miss. Reshma.

M-TECH COURSES STARTED

New M-TECH courses on Communication and signal processing have been started on 19th of August ,2013 with 24 seats.New staffs are appointed.

TECHUNT 2013 @ IIT MADRAS



An integrated workshop and competitive event organized by Nurture Talent Academy in association with CSI titled 'TECHUNT 2013' was held at VJEC on 13th and 14th August. It was a national level workshop conducted by resource persons with vast knowledge in android programming. Three students from ECE department – Sajeer P, NP Sreejith and Daniel Joseph participated in the event and selected as one of three brilliant teams to qualify preliminary round. The second level competitions were held at IIT Chennai on 25th August. This level consist of Mentor Boot Program and Idea Presentation. Honorable dignitaries who were nationally and internationally known like Murugavel Janakiraman – CEO Bharath Matrimony, Srivali Venkat – Founder e-pharm etc were present for the program. We had our representation from among 20 most eminent teams across South India. Our students got the opportunity to present their built up idea 'HOSPITAL MANAGEMENT SYSTEM'. Their idea was widely accepted and was asked to produce business plan and prototype of same within shortest possible time. It was a period of acceptance of our College especially for EC Department.

ACADEMIC TOPPERS OF S1S2

- 1.SAJEER P
- 2.SUMESH K
- 3.ATHIRA M

All
men dream:But not
equally.Those who dream by
night in the dusty recesses of their
minds wake in the day to find that it was
vanity:But the dreamers of the day are
dangerous men,for they may act their
dreams with open eyes,to make it
possible.

TE Lawrence

COMING SOON.....

DEPARTMENTAL FEST

The departmental fest has been into action, which is most likely to be held in the month of October. We are looking forward to the events and many attractive prizes will be awarded for winners.

HAM RADIO WORKSHOP

IETE

The institution of electronics and telecommunication engineers in India is leading recognized professional society devoted to the advancement of science and technology, electronics, telecommunication, and IT . The objectives of IETE focus on advancing electronics and technology. IETE conducts technical seminars, conferences, symposiums and exhibitions all over world, publishes technical journals and provides career advancement opportunities to its members.



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